

Manufacturers Record

Exponent of America



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AUGUST 23, 1923

"Why Not Trust France?"

After a very careful study of economic and political conditions in England, meeting there in the most intimate way a number of the foremost bankers of London and discussing with them the European situation, Mr. Frank Gould, Vice-President of the Manufacturers Record, went to France and, at the suggestion of the American Embassy and of high officials in France, made a tour of the Ruhr District and studied from every angle the situation in France and in the Ruhr.

In France he found everybody at work. He writes in a personal letter that he has been tremendously impressed with the energy and activity of the French people, young and old, male and female. In England he found depression, unemployment, a constant cry of high taxes, and pessimism, with no definite plan nor definite suggestion as to how the European situation could be cleared up. In France he found a spirit of energy and optimism everywhere and nobody complaining of taxes, and a definite plan for the occupation of the Ruhr until Germany is brought to its senses and makes payment of reparations.

France knows Germany as no other country in the world does. It knows the rottenness of German official life in the past and in the present. It knows that the whole scheme of selling marks throughout the world was for the purpose of robbing the world, to acquire vast profit to individual German industrial leaders and bankers. It knows that the German government at the present time is maintaining the unemployed labor in the Ruhr District, which is unemployed because Germany insists upon what it calls "passive resistance."

These are some phases of things in Europe which he has seen and heard which Mr. Gould presents in this issue in an interesting letter which we have headed, "Why Not Trust France?" It will be followed by other letters covering some other points on European conditions.



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Manufacturers Record

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AUGUST 23, 1923

Volume LXXXIV

Table of Contents

Number 8

Why Not Trust France?.....Cover Page

EDITORIALS

The Power of Righteousness and Good Will for Fellowmen	57
A Warning to the Federal Reserve Board's Advisory Council	58
Pacific Coast Lumber Shipped to Texas.....	58
Germany and the Orient Flooding Our Country With Their Products	59
There Should Be No More Big Railroad Consolidations	60
A Dangerous Defiance by Foreign Governments of American Law	60
American Steamship Service to Europe a Popular Success	61
The South Will Grow Rich When Every Community Follows the Eastern Carolina Farming Progress	62
A Copartnership in Which All Partners Share Responsibility	63
The Development of Trade Schools.....	64
Another "If And If" Farmers "Intent" Report.....	65
The London Mail's View of the German Situation.....	65
Where to Find Laborers.....	65
Forty-Two Years Without a Shut Down or a Labor Dispute	66
Wheat Growers Looking Southward.....	66

PRESIDENT HARDING

President Harding as Seen by One of His Pastors.....	68
President Harding as Seen by a Southern Minister.....	70

NEWS ARTICLES

Why Not Trust France?.....By Frank Gould	71
\$20,000,000 of Improvements at Port of Houston.....	73
An Arkansas City Which Handled Over 112,000 Bales of Cotton Last Season—By J. Mell Brooks	74
The Growth of the Southern Furniture Industry.....	76
Rich Farm Lands Offered Without Any Payment for Five Years	77
Extracting Edible Oil from Pimento Seed as a Possible Industry for South.....	78
Immense Water Power Development on White River	79
The West Unites for a Protective Tariff on Economic Grounds Without Regard to Politics.....	80

DEPARTMENTS

The Iron and Steel Situation.....	82	Construction	90
Railroads	83	Machinery, Proposals and Supplies Wanted	108
Good Roads and Streets.....	85	New Financial Corporations.....	110
Textile	86	New Securities	110
Lumber and Building Materials.....	88	Trade Literature	112
Mechanical	89	Industrial News of Interest.....	114

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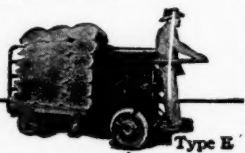
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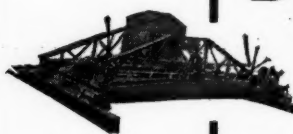
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RICHARD H. EDMONDS, President FRANK GOULD, First Vice-President
I. S. FIELD, Secretary VICTOR H. POWER, Second Vice-President
J. ROBERT GOULD, Treasurer

RICHARD H. EDMONDS, Editor

BRANCH OFFICES:

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In order to avoid delays all correspondence pertaining to news or advertising matters should be addressed directly to the Manufacturers Record, Baltimore, Md., and not to individual editors, officers, employees or any branch office.

SOME unknown friend has recently suggested to several real estate organizations in the South that they request the National Association of Real Estate Boards to invite the Editor of the MANUFACTURERS RECORD to make an address at the next annual convention, to be held in 1924. Quite a number of real estate organizations have passed a resolution to this effect and sent it to the Executive Committee of the National Association of Real Estate Boards. As it is impossible to reach all of these organizations individually, it may be stated here that if such an invitation should be extended it would be impossible for the Editor of this paper to accept it, as he has for several years been compelled to decline some hundreds of invitations for public addresses before commercial organizations and other bodies.

BEGGING LETTERS FROM GERMANY.

Editor Manufacturers Record:

Pacific Grove, Cal.

You advise sending dollars to Germany by money-order. The postoffice will not issue one, and neither will a country express office.

J. C. REEVE.

The MANUFACTURERS RECORD does not advise sending dollars to Germany in any way, shape or form. We do not know how Mr. Reeve got the idea that we advised sending Post Office orders to Germany. This country is being literally flooded with begging communications from alleged poverty stricken people in Germany who get the names of American people and mail these begging letters by the hundreds, and recently, so it is claimed, one letter of that kind was sent to 11,000 Americans.

THE POWER OF RIGHTEOUSNESS AND GOOD WILL FOR FELLOWMEN.

"RIGHTEOUSNESS exalteth a nation," so we are told in the Word of God, and righteousness in individual lives and in the life of the nations is the only sure foundation for human advancement.

It is now universally admitted that the unprecedented outpouring of sorrow throughout the country over the death of President Harding was brought about largely by the fact that the nation had come to recognize that as an exponent of righteousness his influence for the betterment of mankind was beginning to be felt throughout the world.

All business prosperity must be based on righteousness, on honor and integrity, on justice and good will. Because of these facts, the influence of President Harding upon the thought of the people of this country should be emphasized wherever it can be done, in order to awaken the young and the old to a full realization of the supreme importance of righteousness in individual and business and national affairs.

Two addresses made in Baltimore—one at a memorial service on Friday, August 10, by Dr. Henry W. Battle of Charlottesville, Va. and one on the following Sunday at the same church by the Rev. A. Freeman Anderson, of Calvary Baptist Church, Washington, attended by President Harding during his administration, presented the moral and religious side of President Harding's life so forcibly that we have deemed the publication of extracts from them, dealing with this phase of President Harding's life, as of national interest, only regretting that we cannot give them in full. The power for good of a righteous life and the power for evil of an unrighteous life cannot too often be pressed upon every man's thought.

Every boy and girl and man and woman in this land ought to be taught the lesson of righteousness as exemplified in the lives of such men and in this particular case, the influence righteousness and good will for his fellowmen had in carrying Mr. Harding to the highest pinnacle of human greatness—the presidency of the United States—and of winning for him the love and admiration of the people of all classes and of all sections. We are, therefore, presenting in this issue a four page insert containing a photograph of President Harding and extracts from the two addresses to which we have referred. Every reader of this paper can we believe to his own advantage and to that of the young people around him read these addresses and have them carefully studied by the members of his family that they may thus help to influence their lives for good.

A WARNING TO THE FEDERAL RESERVE BOARD'S ADVISORY COUNCIL.

THE Federal Advisory Council of the Federal Reserve System will meet in Washington next month to discuss various suggestions that have been made in regard to par clearance and to seek a solution of some of the problems which, unless they are solved, will result in a bitter fight against the whole Federal Reserve System. No one need for a moment hide his head, ostrich like, in the sand and say there is no danger to the Federal Reserve System. There is great danger. Its enemies are legion in number. They are biding their time here and there, and their action in the future will largely depend upon the wisdom of those now in control of the Federal Reserve Board, the twelve Federal Reserve Banks and the Federal Advisory Council. Upon these men rests a very grave responsibility. They can bring peace to the financial interests of the country and give assurance to the business men everywhere that the Federal Reserve System will be wisely managed with a full sense of its responsibility to the public, or they can by autocratic action produce a situation which, like a conflagration on a prairie, will never be put out until it has swept over the entire land.

With enormous inherent possibilities for good, the Federal Reserve System has equal possibilities for evil. The centralization of the entire national banking business under the domination of a little group of men who in the future, as was the case in the past, might inflate to the extreme, as was done in 1919, or deflate to the bottomless depths of woe for the country, as was done in 1920 and 1921 is always dangerous. This little group of men holds the power of life or death to the business of this country and that means to a considerable extent of the world's business.

From its organization, the MANUFACTURERS RECORD has said that the power granted unto the seven men of the Federal Reserve Board was greater than had ever been voluntarily given by any country to any seven men on the face of the earth; that if these men were angelic in character they might some day be succeeded by men less angelic and less wise, and that, therefore, this small group of men held the power over agriculture, and industry and railroads such as was never before given any men. Wall Street, in its palmiest days of domination of the nation's finances, never dared to exercise the power which has been exercised by the Federal Reserve Board, and this board until recently was probably to a very large extent dominated by Wall Street interests. This board, prior to the recent change under President Harding, when he refused to reappoint Governor Harding, sought to absolutely control the entire state banking business of the country and one member of the board at that time, who is still a member, is reported by Mr. John Skelton Williams, a member of the board and Comptroller of the Currency, to have suggested in a meeting of the board that if they could not get rid of state banks in any other way it would be well to let them break, apparently ignoring the immorality of such a statement and the terrific power for evil should the public once awake to the seriousness of that proposition.

The number of state banks more than doubles that of national banks and the capital and aggregate deposits of state banks far exceed the total for national banks. Therefore, any effort to break state banks as so brutally suggested would be a crime not only against these banks, but against civilization itself for it would stir the passions of the country to such a degree that the entire financial system of the nation would become the center of the hottest political fight that the country has ever seen. It will be well, therefore, in the light of these facts, for the members of the Federal Advisory Council when they meet in Washington next month, to recognize that they are trustees to the nation for the

control of our credits and our finances, and that unless they put aside their own notions as to the right of the Federal Reserve System to dominate the finances of the country and find a way to smooth out the situation and to avoid a great financial battle, they will be recreant to their responsibility.

The country brought the Federal Reserve System into existence under the impression that it was to be a government agency for bettering the financial interests of the entire country and to eliminate the power of Wall Street to control the country's finances. But many of the men identified with the Federal Reserve System regard it as a strictly private affair and entirely ignore its semi-public character. They desire to deal with its operation from the purely financial standpoint of money making for their banks, whereas that was not the intention of the country when it brought this system into being. The MANUFACTURERS RECORD would utter a word of serious warning to the members of the Advisory Council that if any further attempt is made to close state banks by the methods declared by the Supreme Court of the United States and by district courts, to be unlawful, or if they fail to recognize the rights of state banks, they will sow the wind only to reap a whirlwind of destruction and a whirlwind which we may all well pray that this country shall be delivered from.

It must be remembered that Henry Ford, with his remarkable financial theories, is a power which must be reckoned with. His almost limitless wealth, the tremendous influence of his great aggregation of agents and the amount of publicity which the daily papers of the country so freely give him, all make him a potential power unlike that of any other living man. Unless our financial system is wisely managed, unless discord is eliminated and the Federal Reserve System co-operates heartily and in the freest spirit possible with the state banks, Henry Ford may arise as a storm cloud upon the financial horizon which will send forth its lightnings to blast many a financial power which now thinks that it is everlastingly sound and safe.

PACIFIC COAST LUMBER SHIPPED TO TEXAS.

MR. MILTON EVERETT, special representative of the San Antonio & Aransas Pass Railway, of Corpus Christi, sends to the MANUFACTURERS RECORD a picture of the S. S. Florence Luckenbach which recently delivered at Port Aransas, Texas, what he says is the first shipload of lumber ever brought from the Pacific Coast to the Southwestern coast. The cargo consisted of 4,000,000 feet of fir lumber, and 6,000,000 feet of cedar shingles, and Mr. Everett adds:

"Fir lumber is used for the same purposes as yellow pine and is a strong competitor with that building material wherever freight rates will permit, and the establishment of a steamship service between Pacific Coast points and Port Aransas, Tex., means a great deal to the development of southwest Texas. This cargo was loaded at Portland, Ore., and Seattle, Tacoma and Everett, Wash.

"The S. S. Florence Luckenbach is the largest ship ever to come into Port Aransas with a cargo. Her gross tonnage is 8340 tons, and she is 450 feet long. She came to the wharves at Port Aransas without lightering or any delay."

We are not quite able to agree with the view of Mr. Everett that the importation of lumber from the far West and the Pacific Coast to compete with Texas lumber is a matter of congratulation by the people of the State, or by railroad officials. Texas has a vast supply of lumber sufficient for its own needs and for shipment elsewhere. It looks as though the importation of lumber from the Pacific Coast into Texas will not be especially promotive of prosperity for Texas lumber, or for Texas railroads, or for the people of Texas. But Mr. Everett takes an opposite view and seems quite proud of the fact that this lumber has been brought into Aransas Pass.

GERMANY AND THE ORIENT FLOODING OUR COUNTRY WITH THEIR PRODUCTS.

ROBERT GRIMSHAW, widely known as an engineer intimately identified for many years with engineering questions and engineering labor, in a letter to Samuel Gompers discusses the efforts of Germany to flood our markets with its products to the breaking down of our own industries and of our labor, skilled and unskilled. In the course of his letter Mr. Grimshaw clearly points to the danger of this country being flooded with German products made by low priced labor. Mr. Grimshaw is not only correct in that statement as to Germany, but similar conditions exist as to the Orient, where low wages are enabling every country in the East to flood this market with its products. Mr. Grimshaw says, "this being so, any country having a wage rate with a low gold value per time unit eventually has the advantage of those with the high one."

Asia with its silver basis is in a position to produce at a very much lower cost than we can do with our high wages against Asia's wages of three to five or seven cents a day.

During the last fiscal year the Orient shipped us over \$1,000,000,000 worth of its products as shown in the *Manufacturers Record* two weeks ago, a gain of \$333,000,000 for the preceding year and an excess of \$510,000,000 over what Asia bought from us.

With Germany on one side producing at an extremely low cost by reason of its currency system and low wages and Asia on the other side, our country will be flooded with foreign goods to the destruction of our own interests unless we heed the warning and protect ourselves in time.

A protective tariff higher perhaps than we have will be our only salvation.

Mr. Grimshaw's letter to Samuel Gompers is in part as follows:

"Concerning the first danger, the constant rise in wages, threatening not merely to wreck our export trade but to enable the product of German and other cheap labor to flood our markets, we already have had some correspondence.

"The second danger is the infamous and insidious German propaganda, as thoroughly organized as your own federation but acting less openly. Its principal aim just now is to represent that criminal bankrupt as absolutely unable to pay any back obligations, however solemn, to anybody; in fact, to need foreign loans to enable continuance of mere existence—an existence said to be as necessary to the well-being of all other nations as that of the sun to our solar system.

"If we were to establish the economic principle that if the management of the New York Central Railroad should exhaust its pecuniary resources in tearing up the tracks, burning the bridges and stations and murdering the employees of the Pennsylvania, the Baltimore and Ohio and other roads, should agree not only that the Central, unharmed physically, should escape without paying damages, but should be entitled to a loan from all other roads, then we would parallel the situation as presented by Germany.

"While it is true that owing to deliberate ruination of her currency by inflation, at first in the hopes of getting foreign gold for half-worthless paper, then in a panic flooding her own country with entirely worthless scrip, Germany can buy no raw materials abroad except for gold; what she has done for the last four years is to build ocean freighters, canals, factories and bridges and extend her mine workings, so that she is 25 per cent more potentially efficient now than in 1913.

"What she has to sell is labor, cheap labor, working with marvelous equipment under marvelous organization and management.

"She can buy rubber, cotton and copper abroad, convert them with her low-priced labor and pay for them with one-fourth the products; not only flooding the markets of non-venders of materials, but swamping those of the venders themselves—including America.

"You say, correctly, that the entire cost of production of any commodity is labor. That of all service is also labor, plus materials (meaning labor) and money (earned by labor). You must admit that by common consent of manufacturing and producing countries gold is the medium of exchange. This being so, any country having a wage rate

with a low gold value per time unit eventually has the advantage of those with a high one; an advantage only counteracted by greater efficiency on the part of the latter. That efficiency is procured by organization, co-operation and the use of labor-saving appliances.

"There was a time when our superiority in these three items gave us some chance in the markets of the world. Patents helped. But now Germany is our equal in many lines of industry, our superior in some, and she infringes our patents shamelessly.

"Considered as a rival in manufacture and trade, the Germans are intelligent, educated, industrious, enterprising, organized, revengeful, unscrupulous and hungry. If I were a card player, I would call that a dangerous hand, played by a dangerous opponent.

"Your furthering of the present snow-balling of wages, if unchecked, will lose us not only the markets of the outside world but our own. We shall have millions of 'high-priced' workers without work, having gone through a brief period of prosperity, getting rich by taking money from one pocket and putting it into the other; the ultimate result of which is only to wear out both pockets!"

For some months the *Christian Science Monitor* has had a staff correspondent in Germany making a very careful study of economic conditions of that country. In one of his recent letters he shows that skilled mechanics are receiving 7½¢ an hour or less than 1/10 of what American mechanics are receiving. Discussing this situation, the *Monitor's* correspondent says:

"This wage keeps down the cost of living and enables the German manufacturer to undersell both America and England with certain kinds of goods. With labor at this price, the manufacturer here can pay the German export tax, the cost of transportation in government-subsidized steamships and scale the American tariff barrier with ease. He can undersell the American and Briton in Mexico, Central and South America and anywhere in the world. He can, and is finding a big market for his goods in South America, to which he is reaching out stronger than ever before. In four years—since 1919—he has developed his merchant marine from 0 to 40 per cent of what it was when the World War started, and in his own ships he can transport his goods overseas and place his profits in foreign banks, where the Wilhelmstrasse Government cannot tax them."

The fact brought out by Mr. Robert Grimshaw, and also in the letter in this week's issue of the *MANUFACTURERS RECORD* from Mr. Frank Gould, of the great building and development operations going on in Germany at the very time when that country has been broadcasting to the world its alleged poverty, shows the spirit of all Germany. The mark is almost valueless but Germany is working unceasingly in building, expanding, and exploiting her own internal enterprises and industries. These points are strikingly presented in a report by Mr. Basil Miles, American Administrative Commissioner, of the International Chamber of Commerce. In the course of his report he says:

"The Ruhr industrially, instead of deteriorating during the occupation, has improved physically. The workmen are employed in non-productive work, such as overhauling factories, opening new veins of coal, building additions to factories, and enlarging housing schemes for workmen. A particularly striking example of new development on a large scale is the enormous 1100-foot lock in the Dortmund Herne canal at Ruhrort. To cost, it is said, 300,000,000 gold marks. As a result of such new development there is no unemployment in the Ruhr.

"Germany's financial problem is not only one of prime importance, but apparently has no parallel. Fundamentally, the mere physical wealth of the country has not been touched. In the first place, Germany has no devastated area either in material wealth, as in the case of France, or in unemployment, as in the case of England. In the second place, German energy, organization, thrift and industry have continued production, and even increased its possibilities for the future. It is true that the class living on fixed incomes has practically been submerged. Others, however, have risen in their place and there is no question but that the country as a whole, although now in dire straits, still has capacity to recover its former industrial position. Furthermore, it is claimed that the depreciation of the mark has practically eliminated the burden of Germany's internal debt. Germany has no foreign

debt except payments for reparations. Critics of Germany's policy point out that even this gigantic debt of 132 billion gold marks is not greater than the national debt of Great Britain.

"As the population of Germany is nearly a third greater than that of the British Isles, it is claimed that Germany in fact is today better prepared to come back than is Great Britain; that if pressure of Allied occupation were eliminated, Germany would be in a better position to develop and resume normal conditions of industry than any other great country in Europe."

THERE SHOULD BE NO MORE BIG RAILROAD CONSOLIDATIONS.

THE opposition of the Seaboard Air Line Railroad to the absorption of the Clinchfield Railroad by the Atlantic Coast Line has created widespread interest throughout the South. There have been some rumors, however, which go very far beyond the control of the Clinchfield by the Atlantic Coast Line. There may be nothing whatever in them, but they at least have been talked about here and there. These rumors have forecast the possibility of the Clinchfield Line securing by purchase, or otherwise, the Florida East Coast Railroad and then the absorption by the Pennsylvania Railroad of the whole Atlantic Coast Line System. The Atlantic Coast Line, of course, controls by majority ownership of stock the Louisville & Nashville Railroad. It works in very close harmony with the Pennsylvania Railroad and also with the Florida East Coast Line.

We should regard the control of the Atlantic Coast Line by the Pennsylvania Railroad of distinct disadvantage to the South and we trust that it will never come about. There may be absolutely nothing in the rumors, and we hope so, but this is one of the things which the future may bring forth. We believe, however, that the opposition which would be aroused by an effort to bring about such a consolidation would be too strong to be overcome.

The Pennsylvania Railroad is just as big as it should be for the good of the country. The effort to force railroad consolidation and bring about a few great systems is, in our opinion, extremely unwise. Suppose, for instance, that such a thing should ever come to pass that the Pennsylvania Railroad would control the Coast Line, the Louisville & Nashville and the Florida East Coast Railroad. Its influence under such conditions over this entire territory would be almost limitless and the management of the Pennsylvania Railroad of recent years has not been of such a character as to strengthen public sentiment in its favor. Controlling as vast a system as it would then dominate, if such a plan should ever be carried out, the little group of officials would have a power entirely too great for any group of men to have over transportation.

This country is entirely different in every respect from England. The consolidation of railroads which may prove beneficial there, might prove exceedingly unwise here. We trust that the time will never come when a half dozen men holding the presidency of all railroads will practically dominate the entire railroad system of the United States. Their power would be so vast that even if they were angelic in character, and if all of them were Solomons in wisdom, practically every decision they made would create hostility.

In the industrial world there is a drifting away from gigantic industries. There is a tendency to scatter industrial development and this is as it should be. Manufacturing interests must scatter for the good of themselves and of the country. Take one illustration in Baltimore for instance. Many of the clothing plants of this city have built branch establishments in the outlying sections where the people live

instead of bringing the people to vast plants in the center of the city, as was formerly the case.

The movement away from congested districts into the country where the people are living should be the tendency of industrial development. Great combinations in industry and in transportation have reached the limit of expansion, so far as the good of the country is concerned. We need more enterprises and no more vast combinations. We need more railroads rather than fewer railroads and if ever the entire transportation system of the country should by forced amalgamation be carried to a point where a few men would control our entire railroad transportation interests the doom of private ownership of the railroads would have been written and railroads would be forced by the people into government ownership in a blind effort to get away from the control of a few powerful groups of men.

Governmental ownership of railroads it is needless to say would be a disaster so overwhelming that every lover of this land may well pray that we shall be delivered from it.

A DANGEROUS DEFIANCE BY FOREIGN GOVERNMENTS OF AMERICAN LAW.

AFTER fifty years or more of intense agitation in every part of this country and after a large proportion of the individual states had adopted prohibition, the prohibition amendment was written into our national constitution. It is one of the supreme laws of the land. A defiance of that law by foreign governments or the citizens of other countries is a rather dangerous proceeding.

Great Britain, for instance, knows full well that its liquor dealers and many of its other citizens are openly defying the law of this country. Great Britain knows that in absolute contempt of our law its citizens, some times by fraud, which must be known to the authorities, transfer large quantities of whiskey for the express purpose of bootlegging it from British ships to this country. Great Britain knows that its own people are defying our laws. It knows that enormous shipments of whiskey are sent out of its ports for the express purpose of violating the laws of the United States. Great Britain knows that on some of the islands which it controls and the officers of which are directly under the British Government, a vast bootlegging industry is openly carried on, defying the laws of the United States, for the enrichment of these bootleggers sailing under the English flag and the whiskey people living in England and Scotland.

These facts cannot be overlooked by the British government. They are too serious to be minimized. The defiance of American laws with the practical connivance of the British government will necessarily endanger the friendship between these two countries, and the danger to Great Britain is so serious that that country should heed the warning without waiting to have its attention repeatedly called to the spirit of resentment which will develop in America against what is in effect its defiance of our laws.

No one appreciates more fully than we do the importance of close friendship between the English speaking nations. We realize that upon this may depend the civilization of the world, but we also realize that there will be growing hostility instead of friendship so long as England permits its people, under its flag, to openly flaunt the laws of this country and defy as they have been doing our efforts to suppress this accursed traffic.

This is no longer a question of prohibition, it is a question as to whether England will recognize its responsibility to prevent the outfitting of smugglers in its ports with the Government's full knowledge that it is their intention to break our laws. Fortunately, many English people are fully aroused to this iniquity and are trying to stir their Government to an appreciation of it.

AMERICAN STEAMSHIP SERVICE TO EUROPE A POPULAR SUCCESS.

"NO American traveling abroad for business could possibly feel exactly the same way when the flag of a foreign nation floats over him and when entering a foreign port he sees no American flags. Not until the American people can travel abroad under their own flag and until the flag is seen in every foreign port, will it be possible for Americans seeking foreign trade to have that spirit of Americanism with them which will enable them to succeed. When one can travel abroad, standing on the deck of a ship over which floats the American flag, he will have a new feeling of safety and a new courage in doing business."—The late D. A. Tompkins, of Charlotte, N. C., twenty-five years ago, to the Editor of the MANUFACTURERS RECORD.

These forceful and truthful words are recalled by the perusal of an exceedingly interesting article written for the New York Tribune of August 10 by R. M. Bryan, Eastern Editor of "The Black Diamond," who recently made a trip to Europe, going and returning on American passenger steamships. Mr. Bryan's impressive story shows that the vision of Mr. Tompkins has been realized; the flag of our country has been placed upon the high seas with a firm hand and it is there to stay. He says that before the World War he traveled on both British and German steamers and since the war he has crossed on British and French steamers, so that he has been able to compare American with foreign steamship service. He thought that perhaps Americans would not be able to furnish the service that was to be found on other steamers, but he was in error.

Mr. Bryan believes that the idea of traveling on an American steamer was suggested to him by President James A. Farrell, of the United States Steel Corporation, who said at a convention which Mr. Bryan attended in May at New Orleans: "The greatest subsidy that can be given American shipping is the support of the American people." On returning home from the convention his mind rested upon the idea and he concludes that about 75 per cent of the first class travel to Europe is composed of Americans and also at least 50 per cent of the "cabin" or second class travel. Consequently if Americans were to draw as closely to patriotic lines as do British and the French travelers, the present American fleet would have to be greatly increased.

"Going into a study of the European passenger situation," continues Mr. Bryan's article, "I found that despite the fact that some of the severest critics of the attempt of individual operators and our government to build up on the Atlantic a passenger service equal in every way if not superior to that offered by foreign lines, were Americans, our ships were making important history, and had, despite the handicap that comes from government operation, taken a most prominent position as passenger carriers. Moreover, I found upon most searching inquiry among the people who were patronizing these vessels, that they were giving a service that makes practically every passenger a warm supporter.

"Along in May, when foreign lines were commencing to complain about the falling off in travel to Europe, I was assured by the management of the American ships that their patronage was pleasingly large, and from statistics that I have been able to obtain since, both at home and in Europe, their statements have been abundantly supported."

Mentioning the United States Lines, which organization operates twelve steamers, Mr. Bryan says he found that one of the early acts of one of the responsible heads was to say directly to every employee, both on shore and on ship, that continuation of the service depended upon patronage and that American ships must not merely give as good service as others, but must give more; that every employee

must therefore be civil and polite and must co-operate in every way to please passengers.

"I am convinced," says Mr. Bryan, "that the advice was put over most effectively, for I have never found any line of business where employees have been more enthusiastic in trying to win support for their companies. * * * I am also convinced that the wisest thing that the Shipping Board officials have ever done was to go direct to the American people through a most intelligently planned and carried out advertising campaign, whereby they have unquestionably instilled a desire on the part of hundreds of thousands of Americans to engage in ocean travel. People are traveling by thousands who have never traveled before. The advertising campaign inaugurated by the Shipping Board has been responsible for creating in the minds of these people a desire for ocean travel and it is a rule that an enthusiastic seagoer imparts to his friends who are not seagoers a desire to 'go down to the sea' also. So the advertising has a great cumulative value.

"I had scarcely reached Europe early in July when I ran into a prominent official of one of the foreign lines. His first question was: 'What is the matter with the Americans this year? They are not coming to Europe in such numbers as is usually the case in the summer. Our first and second cabin business is way off.'

"I answered him by saying that a great many Americans were going to Europe this year in American ships and that this was no doubt largely responsible."

Others interested in British shipping could not see why anyone, in view of prohibition, would want to travel on an American boat and to these Mr. Bryan said:

"Over home the people responsible for the operation of our passenger ships have realized that there are other things that travelers are interested in besides liquor, and they have thus been working toward those objectives, and in no few particulars, no doubt, without much competition. Thus the passenger returns of the vessels in service today tell the true story."

"What Americans that have traveled on American ships say about the service would furnish ample data for another article," remarks Mr. Bryan. "I have not seen such enthusiasm to aid our merchant marine since the war days. * * *

"The American flag is again on the seven seas, and I believe that the enthusiasm that has been created thereby for American shipping is going to keep it there. And American ships are taking a prominent place in world shipping today, not alone through patriotism, but due solely to their service."

IS LABOR SHORTAGE AN UNMIXED EVIL?

MR. CHARLES PIEZ, President of the Link Belt Company, does not believe that increased immigration would settle any of our labor problems. In a discussion of this and kindred subjects in "Management Engineering" under the title "Is Labor Shortage an Unmixed Evil?" he said:

"There would be no labor shortage, no towering prices, no serious and continued unemployment, if some of the demand at the peak were postponed to swell the volume during the recession that is bound to follow.

"Bringing in foreign labor, to meet the peak demand, will but swell the list of the unemployed during the depression that inevitably succeeds the boom.

"Forcing down prices through Government action will but increase the demand when the buying fever is upon us, and will but prolong the period of recovery.

"The health of the State is of greater importance than excessive prosperity of business, and, to provide for that, we need a more homogeneous citizenship. That can't be attained by removing restrictions on immigration, but it can be improved by a wiser selection.

"I doubt very much whether Congress will permit a

material increase in number of immigrants in the near future, and business must, therefore, learn to cut its coat to suit its cloth. It must find a way of regularizing the demand, so that, industry running normally, can supply it.

"Business had a severe lesson in 1920, and still remembers vividly the 'cold gray dawn of the morning after.' It is proceeding cautiously, for it has no desire to encourage a run away market; and the banks are assisting by advising postponement of construction and large purchase, whenever advancing prices show danger.

"The banks themselves were responsible for much of the inflation in 1920, and they too, have learned that a uniform business, on a moderate scale, is both safer and sounder for all, then one that fluctuates from freezing to boiling.

"We can't do all the business of three years in a single year, and demand postponement doesn't mean that it will never reappear. We need business for 1924 and 1925.

"Then why bid for labor that doesn't exist, why increase the fever of buying by foolish promises of delivery or unnecessarily tempting terms of credit?

"Impatience is an expensive trait, and when a man is willing to pay an exorbitant price for prompt delivery of a luxury rather than wait a few months and save twenty-five per cent, he is in a dangerous way and needs attention. And when that state becomes general among all of our people, then a labor shortage and exorbitant prices are the only remedies. So let us stop whining and give the remedies time to effect a cure."

THE SOUTH WILL GROW RICH WHEN EVERY COMMUNITY FOLLOWS THE EASTERN CAROLINA FARMING PROGRESS.

THE Eastern Carolina Exposition is to be held at Wilson, N. C., for a week next spring, beginning on Monday, April 7, according to the announcement by the Eastern Carolina Chamber of Commerce of Snow Hill, N. C., which is making arrangements for the show. It will not be kept open over Sunday this year because of the extra expense. N. G. Bartlett, secretary-manager, is already at work on the plans which will display the past, the present and the future of the section, about 500 persons participating in this program. Subscriptions for the Exposition are being asked from different counties interested. George Lay, formerly of the Kinston, (N. C.) Morning News, has been elected assistant to the secretary-manager and he will work particularly for the development of "the Eastern Carolinian," which is the official publication of the organization.

That periodical says there has developed during recent years a unique method of getting producers of vegetables and other truck and consumers together. The average farmer dislikes to go to town and peddle his products, but when the institution called the "curb market" came about the farmers took advantage of it and now they carry their stuff to town once or twice a week and retail it at a central point which everyone knows about. There are sold chickens, eggs, vegetables of all kinds, fruits, etc., and housekeepers of all stations in life make their purchases right from the farm, instead of through hucksters. Markets of this kind are regularly held in Kinston, Goldsboro, Ayden, Greenville, Farmville, Tarboro, Smithfield and other places. They have been successful from the start.

The "Eastern Carolinian" also contains some very interesting news of development and progress in the region at and around Scotland Neck where a 10,000 bushel sweet potato storage warehouse has been built this year and about 6000 bushels of potatoes stored and cured. One carload of these potatoes was sent as far as Los Angeles, Calif. As to poultry, there were 10,500 baby chicks placed in the county this year and eight commercial poultry plants were started. Nine brooder houses were built and brooders installed and operated. All surplus broilers were sold, it is stated, at from 45 to 55 cents a pound. There have been forty-five farmers engaged in hog raising, 10 carloads being shipped from the county in March. There were fourteen self-feeders

constructed and fourteen pure bred boars and thirty-seven gilts and sows were placed in the county. A carload of grade Guernsey and of pure-bred and grade Holstein dairy cows was placed with farmers throughout the county and another dairy barn and a silo are being erected. Sheep raising is also successful and it is stated that the wool clipped last year was sold through a pool and it averaged about three times the price offered by local purchasers. It is proposed to pool the wool again this year. Two carloads of lambs were sold to Eastern markets. Careful veterinary supervision of all livestock is noted.

It is further observed that a credit system whereby home raised corn, hay and meat are to be recognized as collateral for loans in 1924, instead of a large acreage of cotton has been placed in operation by the Chamber of Commerce through the banks and the merchants of Scotland Neck. Concerning this plan the Scotland Neck Chamber of Commerce says that each farmer in applying for credit will be required to demonstrate to the satisfaction of the person to whom he applies, that he has a surplus of food for man and beast, that he is planning his crop system so that a surplus will be provided for another year; that he is farming this year as if he expected a boll weevil infection of at least 30 to 50 per cent; that he plants his crops early and fertilizes heavily when planting; that he works intensively and frequently; that he follows the advice and practice of the County Agricultural Agent and that he shows a willingness to co-operate in all these things to avoid the great losses which have been caused elsewhere by the pest.

Furthermore, the merchants, bankers and other business men of the place also resolved last winter in meeting that the acreage of cotton this year should be decreased rather than increased. It was recognized that there was a pronounced tendency through the South to increase acreage and should the season be favorable there would be a very large crop of cotton which would greatly reduce the price. Moreover, in order to increase production of food crops it was necessary to reduce cotton acreage. The requirements of credit are declared to be as much for the benefit of the farmers as for the business men and all were urged to co-operate.

The Halifax County Bankers Association also urged farmers not to increase their cotton acreage at the expense of food and forage crops, and that everything be done to keep down the effects of the weevil.

RECORD PRODUCTION AND SHIPMENTS OF PORTLAND CEMENT WITH CONTINUED HEAVY DEMAND.

PRODUCTION of Portland cement in July of 12,620,000 barrels was larger than in June and more than 1,000,000 barrels greater than in July, 1922. The Portland Cement Association reports that for the first seven months of this year, Portland cement production was approximately 75,000,000 barrels, an increase of 28 per cent over the best previous record for that period.

Shipments from the mills during July amounted to about 13,000,000 barrels, an increase of 400,000 barrels over June. Shipments for the seven months' period ended July 31, were approximately 76,000,000 barrels, a quantity greatly in excess of that moved in any similar period. Notwithstanding this heavy demand, states the Association, stocks of cement at the end of July amounted to about 8,076,000 barrels, or 357,000 barrels less than in July, 1922, and 2,338,000 barrels less than in July, 1921.

Seven Months Ending July:	Cement Production (barrels)	Cement Shipments (barrels)
1923	74,940,000	75,938,000
1922	58,475,000	61,879,000
1921	52,036,000	50,376,000

A COPARTNERSHIP IN WHICH ALL PARTNERS SHARE RESPONSIBILITY.

IN reply to a question from one of its women readers, who asked, "If my husband breaks the prohibition law, is he any better than the man who commits murder?" the Tampa Tribune says:

"The Tribune is personally acquainted with the good woman that seeks this foolish information. It is one of the most absurd questions ever asked and worthy of a hide-bound fanatic and one who may be disregarded. Yes, a man who breaks the dry law is better than one who commits homicide, and the law so recognizes it. The penalty for fracturing the Volstead act is so extraordinary light, usually a fine or sentence followed by a suspension of the sentence. The punishment for murder is the death chair or the gallows. But those ranting, red-nosed lovers of the blue laws, the hard-shell, snivelling, canting Pecksniffs, those collectors of silver and piety, drawers of small salaries for posing as reformers make a living out of doing just such things as we have told about, saying that breaking the dry law is as bad as committing murder. When a man buys liquor he breaks the law, it is true, but he harms no one; he does not commit murder, burn a house, attack a woman, rob a man; in other words, he is not a criminal at all under the common law. But the man who kills some one is—but what's the use? The reformers say the same old thing and perhaps some of them really believe what they say.

"Good Woman and Angel Child of Leesburg, your husband, if a patron of the local bootlegger, is not quite so bad as a murderer, so have patience with the brute."

Perhaps the Tribune has not measured the full force of its words for there is another side to the case.

The man who buys or drinks the bootleggers' whiskey is certainly a co-worker with the bootlegger in the violation of our prohibition laws. Without him the bootlegger could not exist and he must, therefore, as the partner with the bootlegger, giving his hearty approval and his financial endorsement to the bootleggers' work, be responsible for the bootleggers' activities.

Now it is known that the bootleg industry is largely one of murder. The bootlegger never hesitates to kill. He goes prepared to kill. He has murdered many United States Revenue men and many other men, even including rival bootleggers. He is just as much a murderer on the wholesale as it is possible for any class of human beings to be. Murder is a part of the game with him. Must it not be true then, that the man who actively supports by his money and his co-operation the bootleggers' industry is a co-partner in the bootleggers' murdering campaign? The co-partner in this industry cannot possibly claim moral immunity for himself from the effects of his co-partnership, for this co-partnership is willingly entered into, is freely sustained, and all of the activities of the bootleggers are made profitable only through the co-partnership with the men who violate the prohibition laws by buying or drinking the bootleggers' whiskey.

When two men start out with the definite purpose of law violation of any kind and in their work kill someone who interferes with them, the man who did the actual shooting is the murderer, but the man who helped him, or who held the victim while the other was killing him, is morally equally as guilty even if the law does not punish him to the same degree. Therefore, the buyer or the drinker of the bootleggers' whiskey is working directly in co-operation with the bootlegger not only for the general violation of law, but for any murder that the bootlegging industry may commit in its campaign, and there is no sophistry of logic that can change this situation.

The Tribune says that when a man buys liquor he breaks the law, but he harms no one. Evidently the editor of the Tribune was not thinking seriously at that time. The man harms himself, for every man harms himself morally who violates the law. He harms the nation by breaking down law. He harms himself by drinking the poison stuff that the

bootleggers sell. He harms his family by becoming a law-breaker and a drunkard and a co-partner with murderers.

The Tribune also turns its vials of wrath loose against what it calls the "ranting, snivelling, canting Pecksniffs, the collectors of silver and piety who pose as reformers."

Well, let us see about it. President Harding was an ardent upholder of the supreme necessity for maintenance of law and order and he constantly proclaimed wherever the opportunity was presented that our future as a nation depended upon the observance of the laws of the land, and he especially emphasized the prohibition laws.

Was President Harding a "snivelling, canting Pecksniff, posing as a reformer?"

Thousands of the foremost business men of the country have been equally as emphatic in their statements as to the violation of law.

Are these men and the millions of other men, good, honest and true, and the millions of the best women in the land—are they all "red-nosed lovers of the blue laws, snivelling, canting Pecksniffs, posing as reformers?"

Are all those God-fearing, honest men and women who are seeking the betterment of humanity; are all of the men and women who carried the prohibition law through many states prior to its adoption by the national government, "snivelling Pecksniffs?"

Are all of the millions through whose influence and by whose votes forty-six states in the Union have ratified the Eighteenth Amendment "ranting, snivelling, canting Pecksniffs?"

Or, are they real, true-hearted patriotic men and women of this country, upon whose work the future of the nation will depend?

When a reputable paper like the Tampa Tribune publishes such absurdly misleading, illogical, false statements about these people, is it not time for us very seriously to consider to what extent the lawlessness of the nation has gone, when the bootlegging industry is thus upheld in the violation of law as against the law-abiding, honest, home loving, God-fearing men and women of the land who are responsible for the prohibition laws and who will see that those laws are never repealed?

We regret that the Tampa Tribune, with its great influence for good or for evil, has in this case permitted its influence to be so pre-eminently for evil.

MAKE THE SOUTH KNOWN.

THE Houston Post states that during the summer months Colorado doubles its population, that it has a permanent population of about one million but that last summer motorists to the number of 514,412 visited Colorado, while the railroads carried into the state 600,000 vacationists. The energy of the people of Colorado and of the railroads which enter that state justifies this enormous summer tourist business of over one million people. Colorado has built superb highways that have helped to bring the people there. But the railroads in Colorado have advertised that section as liberally as have the California railroads advertised that state.

Recently several Baltimoreans, who had never before been in Western Carolina, motored through a portion of that region. They came home stating that the half had never been told them. If the railroads and the road building department of Western Carolina and the people of that section themselves will do their part as freely and as wisely as have the people and the railroads of Colorado, hundreds of thousands of people can be drawn into Western Carolina during the summer period. Probably there is no region on earth more superbly beautiful and entrancing than Western Carolina during the spring, when wild flowers cover the face of the earth and vegetation of every color gives glory to the

scene. But the railroads have never advertised that section as they should have done for the spring season, nor as a matter of fact for any other season. They do a little advertising once in a while in the spring of the year in the Florida papers to have Florida tourists stop on their way home, but here is an undeveloped asset, or one only partly developed, which could be made to pay a hundred fold on every dollar invested, if it were wisely invested in making known the attractions of Western Carolina.

And what is true of Western Carolina is true of many other parts of the South. Texas, as suggested by the Post, has a section which could be exceedingly attractive for summer tourists, as well as other sections for winter tourists.

How many people know that there is a mountain region in Texas with peaks running from eight to nine thousand feet high? About ninety-nine people out of a hundred in this country imagine that Texas is one vast plain, little understanding its natural beauties and the glories of its mountain regions. Let Texas and Texas railroads do what Colorado and its railroads are doing.

THE DEVELOPMENT OF TRADE SCHOOLS.

TWO years or more ago a fund of \$6000 was subscribed by contractors of St. Paul and Minneapolis for the purpose of establishing in a small way a trading school for bricklayers. The experiment was a success at once. Large numbers of students applied for admission and the school is now accepted as a permanent institution and a much needed addition to the industrial life of the twin cities.

The purpose of the school is to help relieve the shortage of bricklayers and one of its features is the encouragement given to any man over 18 years of age. The union rule prohibits men over 21 from undertaking to learn the trade, whereas experience at the Minnesota school has shown that many of their best students range in age between 25 and 35. And these men are of an excellent type.

The charge for the course of 6 months is \$5.00. Even this nominal fee is returned if the student completes 75 per cent of the course. The average time required to train a man is five months and the average actual cost is \$35.00 per man.

Since March, 1921 when the bricklayers' school was started, over 200 students have been enrolled. Many of these are now working at their trade. The present term enrollment is 100.

A definite working code is followed in the instruction, the student progressing naturally from the task of learning how to spread the mortar on through the various stages of training, up to the more difficult kinds of modern brick work. As he becomes more proficient an effort is made by those in charge of the instruction to place the student on actual construction under the supervision of the contractors who lend their support to the school. He receives due credit for this work on his school course, and receives also such pay as the character of his work justifies.

The necessity for providing means of training for men who desire to become proficient in one or another of the building trades is receiving increasing attention in various cities of the country. We referred recently to the splendid progress shown by the school for plasterers and other trades at San Antonio, and the high degree of proficiency attained by the students at such schools in a comparatively brief period of intensive training. The reason of obviously lies in the fact that those who undertake these courses are eager to learn and are quick to take advantage of an opportunity which has heretofore largely been denied them by reason of the restrictive apprentice system followed by the labor unions.

In San Francisco and other cities these building trade schools are now doing an important constructive work, and aside from the local relief afforded to the trades sorely in

need of new recruits, the success of the work is a stimulus to other cities to undertake the same sort of program.

Discussing the situation in Florida, the Jacksonville Times-Union recently quoted the Gainesville Sun of that state as follows:

"What we need in Florida is a trade school or schools. It would be well if we could have one in every county but, as this would, perhaps, be impracticable, we should, at least, have them in our trade centers. There should be one in Jacksonville and one each in Tampa, Miami, Pensacola, Orlando, Tallahassee and Gainesville or Ocala. We do not pretend to suggest how these all day and all the year round trade schools should be financed. The present classes in operation in this state are subsidized out of state and federal Smith-Hughes funds, and supervised by the staff of the state board for vocational education. Wiser heads than ours must take hold of that proposition. We do know that they should be accessible and free or as nearly free as we can afford to make them. These schools should perhaps, be kept under the supervision of the State University of Florida. If we are too poor to establish them in the different localities suggested, then we should establish one on the university campus here, with an adequate building and an ample outfit. There are those who will criticize us for saying it—but we do say it—that those who go into the trades mean more to Florida than those who go into the professions and the higher callings of life."

And to this the Times Union adds:

"Florida needs many more bricklayers, carpenters, painters, plumbers, plasterers and other artisans than it needs men in the professions. The trade schools are desirable. And to the young man who looks forward to mastering a trade it can be suggested that the heads of industrial enterprises are nearly all men who started at the bottom of the ladder and know the details of the business from its foundations. Every successful contractor has probably worked at the bench as a carpenter or with the trowel as a bricklayer. In this democratic country the man working at a trade is eligible to the highest positions of trust and honor.

"So called 'white collar' jobs often keep a man tied to a minor desk all his life while the young fellow who has mastered a trade rises above him into a position of independence. The workers who use their hands are also allowed to use their heads, in America, and the combination brings success and often fame to the ambitious and enterprising."

MEXICO AS A MARKET FOR AMERICAN MACHINERY AND CAPITAL.

THAT the political and economic conditions in Mexico are rapidly becoming more stable is the confident belief of C. V. Allen, manager for Mexico of the Westinghouse Electric and Manufacturing Company, at present in the United States on a business trip.

The future of Mexico, Mr. Allen declares, is promising. The government is straightening out the political situation and is fostering in every way better transportation, telegraph and postal facilities. At present, Mexico's most serious hindrance to progress seems to be the illiteracy of the majority of its people, but this problem, according to Mr. Allen, is being met through the extensive development of greater educational facilities, both elementary schools and institutions of higher learning.

Mexico is most in need of foreign capital to develop, but not to exploit, its abundant and rich natural resources; to provide its agricultural interests with modern machinery; and to promote the establishment of mills and factories.

Mexico offers to the United States a profitable market for large quantities of machinery and kindred exports. It will turn to the United States rather than to European countries because of our ability not only to make quick deliveries but also to reduce the expense of transportation. Mr. Allen predicts that as soon as deliberations which are now being carried on with regard to property rights of foreigners taxes, etc. are favorably concluded, the United States and Mexico will find it mutually profitable to enter into a closer industrial, economic and political relationship.

ANOTHER "IF AND IF" FARMERS "INTENT" REPORT.

ANOTHER prediction is made by the Crop Reporting Board of the Agricultural Department which contains many "ifs." This time it is a report called the "Farmers Intentions to Sow Winter Wheat and Rye," with the word "intentions" heavily underscored. If this, and if that, does or does not happen, the Board estimates that there will be a reduction of over 15 per cent in the area sown to winter wheat this fall. It is something like the Department's "Cotton intended acreage report" issued last spring which created much discussion among the cotton industry and was severely criticized in many quarters as being absolutely misleading.

If the intentions, as indicated by 25,000 reports from farmers, are carried out, states the board, there will be a reduction of 7,177,000 acres in the acreage to be sown to winter wheat this fall compared with last year. If this 15.5 per cent reduction is made this year in the sown acreage it will make a total sown acreage of about 39,200,000 acres compared with 46,379,000 acres sown last fall of which 39,750,000 acres were harvested, there having been an abandonment of 14.3 per cent.

Compared with the pre-war (1909-1913) average annual sowing of 33,741,000 acres, states the report, the "intended" sowing this fall is an increase of 16.2 per cent.

Reports on rye, with the same reservation of "ifs" indicate a reduction of 9 per cent, the acreage to be sown this fall is estimated at 5,234,000 acres.

This whole report is so full of "ifs"—if the farmers do so and so, and if this and if that, it is almost less than worthless for it is surely counting chickens even before the eggs from which they are to be hatched have been laid.

THE LONDON MAIL'S VIEW OF THE GERMAN SITUATION.

THE London Mail continues its vigorous criticism of England's effort to force the French out of the Ruhr District. It calls attention to the fact that "cheap German cutlery" is selling freely to the Sheffield trade because the shopkeepers get "a bigger margin of profit from it than they do on Sheffield goods." It adds:

"It is said that the profits made in England on imported German cutlery, razors and scissors, are enormous" and calls attention to the fact that a number of reports show cheap German goods are endangering the clothing trade; that men's suits made in Germany are coming over to England and that German raincoats have already been seen in the large stores, as well as German made boots and shoes. Further discussing this subject, the Mail says:

"There is no proof whatever that the French entry into the Ruhr has—to adopt the curious phraseology of our Government—increased the 'devastation' in this country. Such evidence as can be gathered does not confirm this facile assumption.

"We had widespread unemployment long before the French went to Essen, and since January the numbers of registered unemployed have substantially declined. Again, our exports and imports have actually increased in volume and in value during the last few months, though they showed a seasonal drop in June.

"We do not know which are the 'certain northern districts' whose markets are supposed to have been 'ruined' by French policy, but it is not conceivable that Lancashire can be meant. The depression in the Lancashire export trade has lasted for over a year, and it has nothing whatever to do with the Ruhr.

"The primary cause of Lancashire's plight is the high price of raw cotton, which is three times as dear as in pre-war days. Prices for American cotton rule high because production has declined owing to the ravages of the boll weevil, and also because negro labor tends to migrate to the Northern States. Manufacturing costs in Lancashire mills are also much higher, partly because they are only pro-

ducing 50 per cent of their capacity. The consequence is that the prices asked for Lancashire textiles are from two and a half to three times the pre-war rates.

"Lancashire's foreign customers do not possess three times as much money as they did before the war. If Central Europe were suddenly transformed into a 'quiet haunt of ancient peace' it could not afford to buy Lancashire goods at the present prices. Indian and Chinese buyers are no better off than they were years ago. In China the people who buy European textiles are probably rather worse off, while in India the Government have heavily handicapped Lancashire trade. They have imposed an *ad valorem* duty on imported cotton goods which now amounts to 11 per cent. With prices three times as high as in the old days such an impost in India is crushing.

"It is true that India's purchases of Lancashire goods showed some improvement last year. It is also true that the United States now has a record acreage under cotton. What is certainly not true is the allegation that France in the Ruhr has upset the Lancashire cotton trade. Such a suggestion verges on the ridiculous."

It will be well for those Americans who are constantly harping on Germany's alleged poverty and Germany's inability to buy goods to bear these facts in mind and to note the enormous exportation of German made goods to the United States and Germany's ability to buy freely from this country, as shown by Government figures.

WHERE TO FIND LABORERS.

MR. JOSEPH O. PRICE, of San Juan, Porto Rico, in a personal letter to the MANUFACTURERS RECORD says:

"Needless to say, I am a constant reader of the MANUFACTURERS RECORD. I enjoy it, for it keeps me in touch with the progress of the South. I have been reading the discussion of negro migration and have had to control myself on several occasions to avoid getting into it, because I know negro labor. My grandfather was a slave owner and I have worked hundreds of negroes in the mines of Florida. A short time ago there was an article in one issue of the MANUFACTURERS RECORD by a Chicago manufacturer and I took occasion to answer him direct. I told him if manufacturers needed workmen why not seek them in Porto Rico. This is an American territory; the people are now Americans, free from any immigration restrictions and there are here thousands of men who need steady employment at living wages and if he was interested I would be glad to assist him in securing just whatever he might need. He wrote me that it had never occurred to his company that Porto Rico labor could be had and I want to say to you that is just the trouble with so many people in the States. They know nothing about this island with its over one million population. The manufacturers of the United States have a wonderful source of supply for their labor needs right here and every man is an American citizen. Why don't they do it?"

In this connection it is an interesting fact to know that in proportion to its area Porto Rico is one of the densely populated sections of the world. It has been said that there is more population there than can be adequately maintained and sustained under existing conditions in the island. Mr. Price, who is a native of Florida, gives a suggestion to American employers which should interest them at least for further investigation.

EXPORT AND IMPORT VALUES INCREASE.

DURING July, the United States exported \$310,000,000 worth of merchandise, and imported \$284,000,000 worth of foreign goods. This is an increase of \$26,000,000 over imports compared with an increase of exports over imports in July, 1922, of \$49,385,454.

For the seven months ended July, the value of exports was \$2,255,929,696, or an increase of \$134,169,078 over the corresponding period of 1922 while the value of imports for the seven months ended July was \$2,371,920,079, or an increase over the same period of 1922 of \$700,740,430.

FORTY-TWO YEARS WITHOUT A SHUT DOWN OR A LABOR DISPUTE.

MORE than forty-two years of successful operation, during which there has never been any labor trouble, is one of the outstanding facts in the history of the Pelzer Manufacturing Company, of South Carolina. That speaks highly for the management and highly for the intelligence of the employes, but the spirit which has been back of the management in this remarkable achievement is indicated in one of the statements made by President Ellison A. Smyth in a letter to the stockholders of the Pelzer Manufacturing Company regarding the proposed sale of the stock of that company. Mr. Smyth pays high tribute to the directors and to the loyal help and assistance given to him by the officers of the company and the whole corps of employes and then he adds this remarkable statement, worthy to be studied by every manufacturer in this country:

"There are no better people, taken as a whole, in the world than the employes of the Pelzer Manufacturing Company. During the forty odd years the Pelzer Mills have been in operation there has never been any running on short time or curtailment of operation due to the depressed condition of the goods market, or the necessity of piling up goods in warehouses waiting for a market. The obligation has been felt that having invited people to move to the Pelzer village, employment should be given, regardless of whether the continued operation of the mills was to the best interest of the corporation or not. This fact has been appreciated by our employes and no labor troubles have ever occurred at Pelzer."

Beginning in 1880 with a capital of \$400,000, over-subscribed by Charleston people, the Pelzer Company increased its capital in 1888 to \$600,000 and in 1899 to \$1,000,000, the last increase of \$400,000 being placed by the stockholders at \$125 per share, making a total investment on the part of the stockholders of \$1,100,000. During these forty-two years cash dividends aggregating \$3,811,987.50 and stock dividends of \$2,000,000 have been paid to the stockholders. The property is now sold for \$9,000,000 and Mr. Smyth adds "which I trust will be satisfactory to all the stockholders." Any stockholder who is not more than satisfied with such a record as that ought to be forever debarred from having a profitable investment of any kind.

WHEAT GROWERS LOOKING SOUTHWARD.

MR W. L. ENGLISH, Superintendent of Agriculture of the St. Louis-San Francisco Railway Company in a letter to the MANUFACTURERS RECORD, referring to the facts recently given in this paper in regard to the development of vegetable and fruit growing in the South, says:

"I agree with you that now is a good time to make an appeal, especially to Western farmers, as to the great agriculture opportunities now existing in the South.

"The wheat growers of our grain belt realize as never before the hopelessness of attempting to raise wheat beyond our domestic needs in the face of the world situation with respect to this commodity existing at present. Diversification in most of the strictly wheat producing belt is, generally speaking, an extremely difficult thing, and if these men stay where they are, faced with conditions that exist at present, they are almost compelled to grow wheat or go out of the farming business. For that reason, I believe that a good many of them would consider changing their location. In fact, they are thinking of this and discussing it more than they are the idea of developing some sort of diversified farming where they are now located.

"Mr. J. N. Cornatzer has charge of our emigration work. I will discuss this matter with him at once. I have passed your letter on to our Vice President, Mr. Koontz, in order

that he may be familiar with your views and know what you are planning to do in the way of making use of the wonderful collection of data and interesting facts which you have announced and published in August 2 issue of your RECORD."

NEARLY 12,000,000 PEOPLE IN ENGLAND INSURED AGAINST UNEMPLOYMENT.

And Over 1,250,000 Drawing Unemployment Doles or Pensions.

Official returns of unemployment rearranged by the British Labor Ministry to conform to the industrial grouping adopted for the British census of 1921 indicate that depression is more marked in shipbuilding and ship repairing, engineers iron and steel founding, and in the cotton industry than in other British manufacturing. The total number of persons claiming unemployment benefits in all British insured industries was on June 25, 1,295,135, and the above three trades accounted for almost one-third of the total. However, the total number of applicants for benefits in all industries in June was approximately 167,000 below the total for June, 1922.

Detailed figures of the Labor Ministry received by the Bankers Trust Company, of New York, from its English Information Service, show that British industries in which unemployment is more pronounced at present are as follows:

	Number Employed
Shipbuilding and ship repairing	119,006
Engineers iron and steel founding	141,213
Cotton	122,228
Distributive trades	73,432
Puddling furnaces, rolling mills, etc.	44,120

The total number of persons insured against unemployment in all British industries coming under the Unemployment Insurance Acts was on May 21, 11,750,450.

National Exposition of Power and Mechanical Engineering.

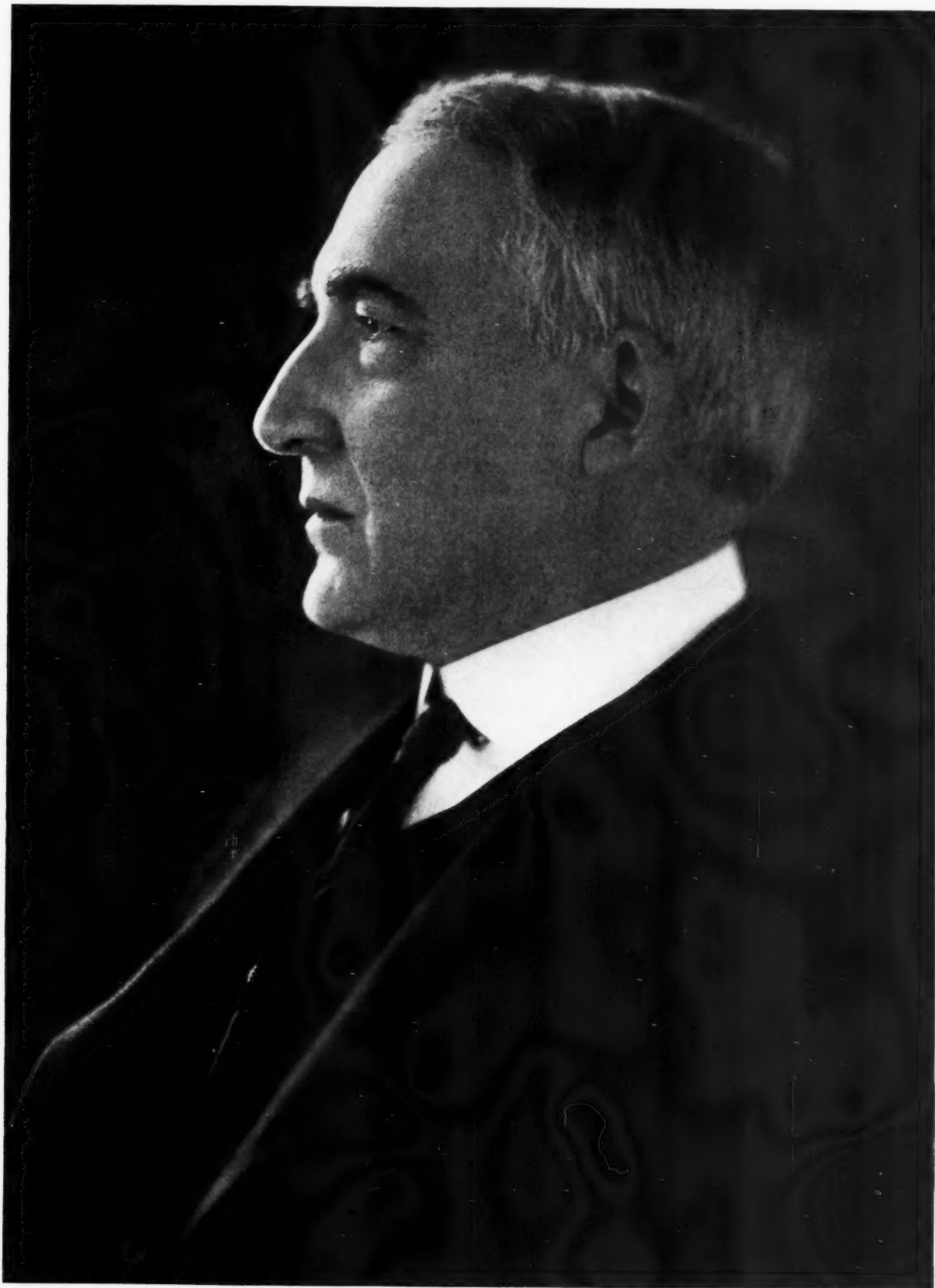
The entire first floor of the Grand Central Palace, New York, has already been engaged by exhibitors for the Second National Exposition of Power & Mechanical Engineering, which will be open for the week beginning December 3 to 8, 1923. The space for the exhibition was therefore extended to include the mezzanine floor, some sections of which have also been reserved.

Over ninety per cent of those exhibiting at the 1922 Show have re-engaged space for 1923, and many of them are using larger areas.

The first exposition it is said drew an attendance of 47,580 representative engineers, operating men, executives and financiers as well as technical students and their instructors. The second show, with its greater size and diversity will doubtless be of even greater value.

The dates for this second exposition will bring it in parallel with the annual meetings of the American Society of Mechanical Engineers and the American Society of Refrigerating Engineers, The A. S. M. E. committee on meetings and program is co-operating with the exposition management so that the technical sessions of the A. S. M. E. meeting will be held in the morning. As the exposition does not open until noon each day conflict is thereby avoided and members of the A. S. M. E. will be privileged to visit the exposition without losing the valuable papers and discussions of the meeting.

The conduct of the exposition is supervised by an advisory committee headed by Irving E. Moulthrop, of the Edison Electric Illuminating Company, of Boston. Fred W. Payne and Charles F. Roth are co-managers of the Exposition, with offices in the Grand Central Palace, New York City.



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Warren Gamaliel Harding

Twenty-ninth President of the United States

Born in Ohio, November 2, 1865—Died in California, August 2, 1923

President Harding as Seen by One of His Pastors.

Extracts from a Sermon by Rev. A. Freeman Anderson, Assistant Pastor of the Calvary Baptist Church, Washington, attended by President Harding During His Administration, Delivered at the University Baptist Church, Baltimore, Sunday, August 12, 1923.

TEXT—Micah 6: 8—"He hath shown thee, O man, what is good and what doth the Lord require of thee but to do justly and to love mercy and to walk humbly with thy God."

There is a particular miracle which God is constantly working in His universe and by which He is ever evoking the worshipful wonder of thoughtful onlookers. I may call it, for lack of a better name, the miracle of beauty-making. By His wonder-working hand He distills out of the common stuff of the world its fine essence and pours it into a crystal that mirrors the radiance of the skies, a rose that defies the skill of any artist and seems to have caught its breath from Paradise, a sunset or a rainbow whose blended tints appear to reflect the beauties of the jeweled City John saw "*coming down from God out of Heaven.*" Out of the great mass of human material He raises a rare specimen of manhood; a crystal character that radiates marvelously the splendor of the infinite spiritual world; a choice flower in the garden of God, whose inspiring influence lingers to sweeten earth's sultry atmosphere long after the visible form has faded and gone from view. It is human life transfigured into its possible fineness, until an admiring world beholding the beauty exclaims: "*What hath God wrought!*"

In these recent, dreadful days we have been standing together under a storm-blackened sky, our sore hearts throbbing in unison to the solemn, minor key of deep sorrow for the loss of one of God's masterpieces of manhood; whom an intimate friend and co-laborer has very fittingly called "*one of nature's noblemen;*" upon whose kingly character Shakespeare's crowning eulogy would fall with singular appropriateness:

"His life was gentle, and the elements
So mixed in him that Nature might stand up
And say to all the world, 'This was a man.'"

Of the various "elements" of human fineness which God "mixed" to produce the admirable life of Warren Gamaliel Harding, only a few may be mentioned in a crowded hour like this; and for those few great, elemental virtues I know of no expression to which we may resort quite so appropriately as the inspired text his lips reverently kissed the hour he stood to take the solemn oath of office as our President.

Micah 6:8—"He hath shewed thee, O man, what is good; and what doth the Lord require of thee, but to do justly, and to love mercy, and to walk humbly with thy God."

Justice, mercy, humility—in what copious measure and exquisite manner these fundamentals of really fine life were blended in him, as the primary colors of the universe mingle to make the beauty of the rainbow! There is, indeed, something remarkably suggestive in the very background of this great text, in its application to our lamented leader. The prophet of Israel is here seeking, with soul aflame, to supplant empty formality with the reality of religion; to breathe the living breath of holy conscience into the dry bones of conventional ritual, so that there should be real soul in the sacrifices the people were offering. "This," cries the man of God with the passion for genuine righteousness burning in his heart at white heat—"this is what God wants of you, the real 'good' with which alone He can be pleased; not a mere

'form of godliness,' but the living force of it in your hearts, blossoming out in faithfulness to high ethical ideals along all the branches of your daily living."

All the lines of praise along which the multitudes of admiring hearts have come to lay their tender tribute upon Mr. Harding converge and center in his thorough genuineness—the great sincerity of his worshipful heart as he faced his God, and of his brotherly soul as he faced his fellowmen everywhere. He was far too honest for the indulgence of any sham; too true in soul to find any thrill of pleasure in mere "dress parade." He had no ear for the "sounding brass and clanging cymbal" empty of the heart-throb of sincere charity. He had a conscience kindled too intensely at the altar of the Holy God to sit in cool complacency before camouflage. He was keenly alive to the encouragement of honest praise, but in the atmosphere of empty pomp and palaver his heart would wither like a sensitive flower in a desert of sand. Nowhere was this genuineness more splendidly evident than in the house of his God.

His worship was cheery, but always dignified, and never could be flippant. Like the thirsty hart seeking the water-brooks, he brought to the sanctuary a soul that could be satisfied only in the depths of that river of refreshing power "the streams whereof make glad the city of God," and which is "too full for sound and foam." He feasted his heart on the great, rich hymns of the church, stately in their sentiments, exalted in their expression, and deep in the flood of their spiritual power; for his soul was too deep and dignified, too aspiring and thoughtful, to find its relish or rest in a superficial splash of mere sensationalism. He "took in earnest" his religion, with all the solemn relations it involved toward God and fellowman. He stood in his beautiful simplicity, sincerity and strength like one of those magnificent alabaster pillars in the cathedral of St. Mark at Venice, so clear and transparent that the golden light of the sky shines through it, and yet strong to hold up the structure that bears witness to Jehovah on earth.

Now, with perfect naturalness there came to be built around that central virtue of thorough genuineness, like the radiant phases of the crystal around its core, those "mixed elements" of beautiful life which the prophet of Israel here turns successively to our view:

1.—**JUSTICE:** "*To do justly*" Mr. Harding knew his God required as a necessary and fundamental element of real religion; and there is abundant evidence that he answered conscientiously to that requirement. He impressed himself with the solemn fact that there is no genuine righteousness with God that does not ripen into "a square deal" with fellowmen; that real consecration to the Divine must issue in honest conduct among men. He knew religion meant that, when as a lad of fourteen he laid his life at the feet of his Lord. He placarded that profound principle of his life on the wall of the editorial room of the *Marion Star*: "Treat all parties alike. Be truthful; be fair. * * * Strive for

accuracy; I would rather have one story exactly right than a hundred half wrong. * * * Get the facts." So, in private as in public life he carried everywhere in his heart the passion for fair play and honest dealing which flames in every soul that has really been triumphantly touched by the Holy Spirit of God.

It was that passion for honest dealing with fellowmen that poured itself out with increasing frequency and force, and with utter spontaneity, in those last addresses he bequeathed to his beloved country as he traveled over its far-stretching fields, pleading earnestly for more of the spirit of Christ in the hearts of the people and a larger realization of the brotherhood Jesus taught in their relations with one another, as the one cure for everything that blights and distresses our national and social life. If, as the poet has said, "An honest man is the noblest work of God," I am sure Warren G. Harding was one of God's masterpieces of noble manhood.

2.—*MERCY*: What the Lord requires of us, says this inspired prophet again, is that we "*love mercy*," literally, that *love to be kind*. More than once Jesus called the people of His day away from the empty formalities of religion to its reality by this mighty imperative: "Go learn what that means, 'I will have mercy, and not sacrifice;'"—a recall to reality which the rulers of the day especially needed. And what does that mean? Simply this: "I want you to be kind, not religious merely in outward form." Mr. Harding was kingly in the kindness of his great heart and the tenderness of his touch upon others. Sturdy in his strength of character, * * * firm in the decisions of his mind as God gave him to see the right, yet his warm, loving soul breathed out an atmosphere of geniality and graciousness that charmed and held those who came in contact with him. Nothing has been more frequently or strongly sounded in all the vast chorus of compliments that have rung out from the hearts that knew him, than this: his genuine kindness of heart toward everybody, and the winsome Christian gentlemanliness with which he met his fellowmen everywhere and of every class. His great heart had room for all humanity, but the love that surged in it left no place for petty prejudices or bigotry, certainly not for a grudge.

His editorial work was held under the control of his gracious consideration and charity toward all. The famous "creed" in his office thus commanded: "Bring out the good in everybody, and never needlessly hurt the feelings of anybody. If it can possibly be avoided, never bring ignominy to an innocent woman or child in telling of the misdeeds or misfortunes of a relative." The warmth breathed out from his soul-depths created around him a rare climate of amiability and affability which at once conveyed comfortable feeling and kindled fervent friendship. Sincere friend of all, he won for himself in return the kindly feeling and friendship of all who knew him. Always dignified in his bearing, yet little children approached him unafraid.

It is a most significant thing that the last address Mr. Harding made, transmitted to the audience through his secretary when the great heart had come almost to its last throb, reached its peroration in the song of the angel-choir over the manger-cradle at Bethlehem; "Peace on earth, good will toward men." For he was not only a great lover of peace, but he firmly believed that good-will is the sovereign and sole remedy for all the political and social ills with which the life of human kind is afflicted. "I mean," he said emphati-

cally to a friend just before leaving for that final trip that proved fatal, "to approach every question, so far as I can, with neither bias nor ill-will. I shall continue, no matter what may be said of me, nor how harsh the criticism may be, nor how unjust, patiently to apply good-will and a friendly feeling in the settlement of every question. 'Good will is the only solvent of ill-will. I believe this is the time for good will to be used as the great and most effective political policy in furtherance of that good understanding, without which no permanent betterment in human affairs can be effected.'" In the heroic ministry of that good-will he came to his death as a real martyr.

How much the world is indebted to these giant Great-hearts whose souls are big enough to take all human kind into their compassion and benevolence and love; who tower tall in their vision above all the superficial separating lines that sever the human family, and by their uplifting, unifying influence lead all classes and parties and sects to walk on the high and holy level of fraternal sympathy and service.

3.—*HUMILITY*: The kingliest of men was "meek and lowly in heart." True greatness is never self-crowned: with a sense of wonder that it should be considered worthy, it lifts its lowly brow to receive the coronet other hands may bring. Especially does its vision of the greatness and goodness of God chasten from it the feeling of self-righteousness and self-sufficiency which marks small souls. (Isa. 6:5). The life of Mr. Harding radiated the lordliness of the lowly spirit; not "amiable weakness," but might and majesty clothed in beautiful modesty and sincere humility. "I know how far from greatness I am," he humbly said. "It is the office, and not the individual occupying it, that the people revere," was the answer with which he was wont to meet the assurance that high praise was being heaped upon him.

With the spirit of a little child he bowed in prayer before the throne of the one Lord of all rulers, seeking guidance and strength for the weary way. In the splendid mosaic of his manly virtues shines conspicuously the reverent spirit that makes men walk softly before Jehovah. "Treat all religious matter reverently," read a central line in that famous newspaper "creed." When someone spoke to him admiringly of his selection of this great text for the inaugural hour, calling attention particularly to the lofty ideals expressed in this last phrase, Mr. Harding's reply, into which he breathed his heart's deep conviction concerning the supreme secret of personal and national safety and success, was this: "I am sure that if we walked more humbly with our God, we should take longer and more rapid steps in the pathway of real progress."

Today we stand together, heart to heart, in the brotherhood of a great bereavement; a common sorrow merges our souls, and makes us feel with a fresh realization the deep, close kinship we after all bear to one another. Looking back through memory's hallowed vista upon the manly, godly life that moves no more before us on the earthly field of vision, we say with reverent rejoicing—He "walked with God; and he was not, for God took him."

"The tumult, and the shouting, dies;
The captains and the kings depart;
Still stands Thine ancient sacrifice,
A broken and a contrite heart.
Lord God of hosts, be with us yet,
Lest we forget! Lest we forget!"

President Harding as Seen by a Southern Minister.

Extracts from Memorial Address on President Harding by the Rev. Henry W. Battle, D. D., of Charlottesville, Va., at the University Baptist Church, Baltimore, Friday, August 10th.

The sudden death of a President of the United States is in itself an event of world-wide significance, and to us, thus bereft of our Chief, it is an event of the deepest and tenderest meaning. It is fitting at such a time, that we should pause, in the midst of our clashing interests and little-day ambitions, and listen to "The still small voice" which speaks of Righteousness, of God, and of Eternity. We are forcibly reminded today of the inexorable law of mortality, and of those tremendous things we call Life and Death. Would you read an epitome of human history? Would you have revealed through your eyes the quintessence of human biography? Find it in the 5th chapter of the book of Genesis:

"And all the days that Adam lived where nine hundred and thirty years; and he died."

And all the days of Seth were nine hundred and twelve years; and he died."

"And all the days of Enos were nine hundred and five years; and he died" —

so the story runs. He lived; he died. The cold, imperturbable reiteration: the awful sameness, the monotony of what was, and is, and will be:—he lived; he died!

Sameness did I say? Yes, but variety too. He lived what? *His* life. Adam's life not Seth's: Not Enos'; but *His*. God ordains the sources from whence comes the sameness; man creates the diversity—

"Only the same old story, but oh how the changes ring,

Prophet and Priest and Peasant, Soldier and Scholar and King—

Sometimes the warmest handclasp leaves in the palm a sting—

Sometimes in the hush of even, sometimes in the mid-day strife,

Sometimes with devil-like calmness, sometimes with passion rife,

We dream it, live it, write it, this weird, wild story of life."

Today we think of Warren G. Harding. He has passed beyond the reach of our censure or praise into that mysterious calm unbroken by the agitations of human grief or passion. I speak not for the dead but for the living. I shall not speak as the critical analyst of policies and measures; but I shall seek on your behalf, to place some simple flowers on the bier of our fallen chief.

It is, I think, peculiarly appropriate that we should call to mind, in loving appreciation, the outstanding moral attributes of President Harding, since these are precisely those which we may all hope to imitate. The qualities which distinguished him as a man among men; the constituent elements of the Patriot, the Christian, and the Gentleman, those elements which not only impart value and charm to personal character but strength and permanency to governments.

Some one has beautifully said, "Home is where the heart is." In a palatial hotel at the center of a great city. "The First Lady of the Land" is at home with her sick loved one—nurse, companion, comforter, wife—in vain her frail hand seeks to wave back the grim specter of Death. In vain her breaking heart pleads with her Savior. Hope, "Girt with golden wings," comes only to be thrust aside by inexorable fate. Oh brave, gentle lady, our hearts go out to you in reverential and ineffable sympathy to-day. "It doth not yet appear," but it will—it will. "God is his own interpreter, and He will make it plain."

We of the South have not forgotten President Harding's

noble words uttered soon after receiving the nomination of his party for the President in praise of the South, nor can we ever forget his whole-hearted, enthusiastic praise of the Confederate soldier, in response to a cordial invitation to attend the Reunion at New Orleans as the honor guest of the United Confederate Veterans. As he claimed the fame of those who followed Lee and Johnson as a part of his American heritage, so do they, and we, the descendants of those men, claim him—and to-day throughout our beautiful Southland we honor his memory and shed tears upon his bier. No true son of the South regrets that the Stars and Bars hang at half-staff from the old White House of the Confederacy in Richmond to-day. That is as it should be!

He was a *man's man*! He loved his fellow man. He believed in the *brotherhood of man*. Then his, no hand was more strong and generous, no laugh more hearty, no smile more laden with sunshine! That he should have planned, with heart-ache and brain-sweat, for the peace of a distracted world, was but in consonance with the dominating motives of his entire life. That those plans did not meet the approval of certain astute politicians, in his party and out of it, counts for but little now. We are only concerned at this hallowed hour with the things which make for character—

"Only the actions of the just

Smell sweet and blossom in the dust."

Warren G. Harding was a *Christian*—that is best of all! That he was a Baptist, we rejoice—and we have a feeling that the pure democracy of our church polity found a most hospitable place in his mind and heart. But the fact that he was a Baptist does not bulk as large with us as does that *greater* fact, he was a *CHRISTIAN*.

We read with infinite satisfaction that message spoken from the rear platform of his railroad car, during the same fatal journey from ocean to ocean, at Colorado Springs:

"I tell you, my countrymen, the world needs more of the Christ; the world needs the Spirit of the Man of Nazareth, and if we could bring into the relationships of humanity among ourselves and among nations of the world the brotherhood that was taught by the Christ, we could have a restored world; we would have a new hope for humanity throughout the earth."

Bear with me while in conclusion, I relate a story more tenderly beautiful than any I have found recorded in the proud annals of earth's mightiest rulers—

The faithful pastor of the little Baptist church at Marion, President Harding's home town, had been stricken with an incurable malady. The church found itself financially unable to employ a new minister, and at the same time continue the salary of the sick pastor. Somebody told the embarrassing and distressing situation to Warren G. Harding, just inaugurated President of the United States. The President immediately assured the church that he would gladly assume the responsibility of the comfortable support of the sick preacher as long as he lived. This he did, and on the first day of every month paid his full and regular salary, up to a few weeks ago when the Lord took his servant home. I have tried to imagine the welcome that sick preacher gave the spirit of his illustrious benefactor when, convoyed by angels, it swept through the gates into the city up yonder! I have tried to imagine how sweet the words of Jesus sounded to Warren Harding:

"Inasmuch as ye did it unto one of these my brethren, ye did it unto me."

Why Not Trust France?

VICE-PRESIDENT GOULD OF THE MANUFACTURERS RECORD REVIEWS THE SITUATION IN EUROPE.

[Mr. Gould has had exceptional opportunities to meet in the most intimate way some of the foremost bankers and other men of affairs in England, and public men including leading army officers of France. Returning to England from a visit through the Ruhr district he sends the following as a review of the whole situation as it appeared to him. Other letters on European conditions will follow.—Editor Manufacturers Record.]

By FRANK GOULD, Vice-President, MANUFACTURERS RECORD.

England's objection to France being in the Ruhr appears to an outsider to lack the force it might have if England had a definite plan to propose by which Germany could be made to pay her bill to the Allies.

The politicians in England as elsewhere are pulling at cross purposes while the country and the world are waiting on a definite declaration of policy.

There is suspicion of France, of her alleged militaristic aims and her industrial ambitions. It is declared by a part of the British press that from a military standpoint the situation in France is deliberately developing with the maintenance of a big army on a peace footing, her refusal to state on what terms she will leave the Ruhr, her arrogance and indifference to counsel which will prove more intolerable than under the domination of Napoleon.

Further, France in control of the vast coal and ore area of the Ruhr changes the industrial balance of Europe to an extent that causes profound dismay to those who think France is wrong.

Bonar Law is quoted as having told France she could never collect reparations by occupying the Ruhr and the Baldwin ministry has so far failed to say how they can be collected.

Others disagree with all of this. Some of the most influential side with France, entirely and persistently. They urge England to take a stand on France's side and very correctly point out that the discussions taking place among the Allies which seem to get nowhere are strengthening Germany's hands.

There bids fair to come about an impasse that will leave Germany smugly victorious and the great evil she wrought and the burden under which England and all Europe and the world are staggering as a result of German devilry are lost sight of while France's course, right or wrong, is being debated.

Englishmen are so generous in their judgment of America and in their cordial hospitality to Americans it comes with seeming bad grace for a visitor to criticize or question the acts and conclusions of a people whose aim and desire are to have the world at peace and to make it "a better place to live in." It is because of this very fact and of England's acknowledged experience and wisdom and leadership in international affairs that the world waits on England now—waits on her very earnestly and anxiously but hopefully.

Sometimes an outside friendly viewpoint is helpful and it would appear there is grave danger of Germany getting off without paying anything.

The fact is, and this view is expressed after six weeks of very careful observation, study of the press, and conversation with Englishmen, England has no remedy to offer but merely says she thinks France is wrong.

There seems to be an almost fatuous belief on the part of Englishmen that somehow in time a way will be found and that England as in the past will "muddle through" and be in the right finally—somehow. In the past she has "muddled through" and in the recent past the work of her sons saved civilization but at a cost that would have been

less in its fearful human toll and upon the flower of her land had she heeded the warnings of her friends.

England lacks definite forceful constructive leadership. It doesn't do to say to Poincare, "You are wrong" and fail to suggest what would be right.

France believes if England and America too would say to Germany "Quit your passive resistance. You are dead wrong in the game you are playing and we believe France is right in trying to collect her bill" the effect would be not only helpful to France but immediately helpful to England and Germany herself as well as to the rest of the world.

It is true this involves faith in France, but why shouldn't France be trusted? She has suffered most. Her land was invaded and great areas destroyed. She was promised reparations at Versailles. She has been promised them since and every promise has been broken. Since being in the Ruhr, German industrial leaders have promised and signed contracts to deliver to France supplies of wood and other products, only to declare as early as the following day in some instances that they couldn't carry out the agreement. It developed afterward that Berlin had said nay.

France, to say the least, is entitled to fair judgment. She has announced to the world from the time of the Washington disarmament conference and since, that she has no militaristic aims.

Why not trust France?

The German hordes in their descent upon Belgium took possession of Brussels. They engulfed it by their numbers—that "gray serpent that came on and on" for days. But they didn't harm Brussels. In France they destroyed everything they could reach. Has Rheims been forgotten? And even the fruit trees were destroyed. Why not trust France?

The politicians of England and some business men profess to believe that England's trade is suffering severely by reason of France being in the Ruhr. Some go so far as to say privately they would rather have "trade" resumed with Germany than to insist on her paying any reparation. Aside from the unworthiness of the latter suggestion, these doubters refuse to be convinced by economists and trade experts of their own nation who are proving in frequent articles in the press, that what depression exists is from entirely different causes.

The English state of mind is hard to understand. It apparently wants to stand by the government, it apparently believes it wants trade resumed with Germany and is apparently suspicious of France's ultimate motives, and yet the same people who give expression to such views when pressed for a private personal, man-to-man opinion, admit they sympathize with France and would do as France is doing if they were in France's place.

Here we have then two states of mind which if explainable at all show a halting between two opinions and at a time when dealing with such a vital question as making the peace treaty effective and dealing with a nation like Germany, about whose policy of deceit there can be no doubt, requires definiteness and decision of the most positive kind.

German cutlery in Sheffield brought there by English

merchants in competition with their own manufacturers and sold at a price that Sheffield can't meet is a fact to be considered. It explains the falling off in Sheffield trade better than the Ruhr occupation explains it.

England's textile dullness is not because France is in the Ruhr although some believe that to be the case. A book could be written on that subject. Instead of keeping down the pay of workers and catering always to low priced markets at lowest competitive rates, may it not be asked, wouldn't it be better to try the reverse? By advertising and salesmanship with a product that cannot be surpassed, surely markets can be developed which will afford more permanent satisfaction and benefits than can be attained by either taking Germany's part against France or waiting till the farmer of the Southern States can be induced to take less for a crop that has kept him almost in servitude for generations.

England's coal is going into Germany and good prices are being paid for it. Germany has to have this necessary product. Where does she get the money to pay for it?

Whatever may be England's course there should be no doubt about the course of France. She is in the Ruhr to stay till the Germans give satisfactory evidence of paying. It is also very clear to the unbiased who visit France and talk with her public men that she is in the Ruhr for one purpose only—to collect the money due her.

She doesn't want any more territory. It was stated to the writer by one of the officers in the army of occupation that all of them believed it was the policy of their government to withdraw first from one point and then from another as German payments are forthcoming, until the whole territory is evacuated. This is their expectation and intention. One, high in command, asked if America could not be induced to say "just one word" to Germany. He respected America's traditional policy of not becoming entangled in European affairs, but believed without any entanglement we could say "Germany you are wrong." That's all.

In any study that is made of Western Europe some facts stand out very plainly. England sees an unbalanced Europe which disturbs her. Under former adjustments England felt she could act as a balancing force better than now when France has under her temporary control the vast industrial resources of the Ruhr, and an organized Germany helping to develop Soviet Russia is an imminent possibility. The result is a disturbed state of government mind and a disturbed state of the public mind. It is doubtful if the government will express itself more definitely until the public is heard from in a more positive way.

In all deference, in all respect, may it not be suggested that a policy of co-operation with France, a policy of confidence instead of suspicion would be better than no policy or one that so far has led to confusion and uncertainty abroad and at home. Wrong should be denounced whether perpetuated by nations or individuals, and Germany has been wrong and is wrong today.

Contrast the situation in France with that in England. There everybody is busy. There is no unemployment, no complaint about high taxes, and the nation to the last man is back of Poincare. He is constantly referred to as a great man and a man for the emergency. "We know the Germans," says France, "as no other country knows them and Germany must pay for the damage she did." No indecision. Strangely calm for France and evidently very grimly determined.

And Germany? Wonderful crops. Great new factories of the most modern type. Veritable forests of giant chimneys that are marvels of brick work are seen in town after town. Evidence of wealth and prosperity everywhere. In the Ruhr, business has halted to an extent, but the government is paying the workers for their idleness. That is

passive resistance. A premium for helping the government avoid a debt which it promised to pay.

Rather a definite policy. No evidence of indecision in that respect at least. Maybe that will come later.

The mark in the meanwhile pursues its downward spiral. Here we have evidence of a very definite policy. A nefarious one it would seem, of deceiving one's own people because the mark must be repudiated some day in view of the tremendous quantity printed, but a policy that has the earmarks of seeing the end from the beginning.

And the German on the street who recognizes the mark's worthlessness and who is eager to get his hands on an American dollar, when asked what has become of the Reichsbank's gold reserve, tells you earnestly "It has been paid to England and France."

So here we have the contrast.

England, hesitating and with public opinion halting. No way out is seen yet.

France, very determined and pursuing what is evidently a carefully thought out and courageous course, because it took a great deal of courage to make up her mind to go into the Ruhr. But the result is France is subjected to very grave criticism.

Germany, unharmed and principally concerned about avoiding the payment of her debts. So far she has "won the peace." The pantomime she has staged in her money affairs deceives no one.

England's problems are grave. They must be always so more or less from the vastness of her dominions and the complexity of the races over which her benign rule extends. At home she has labor becoming more exacting every day and the unemployment dole presenting a question difficult of solution. Started and maintained from a noble purpose of helping unemployed ex-army men, the allowance from the government to those out of work which sometimes runs to more than two pounds a week, would seem to be almost a premium on idleness.

And yet England is serene. Isn't she so always? Confidently serene perhaps because of the past, with its glorious record of right decisions reached finally. The world, however, is waiting.

Nashville, Chattanooga & St. Louis Railroad Lets Contract for \$200,000 Office Building.

Nashville, Tenn.—Contract has been awarded to the Southern Ferro Concrete Co. of Atlanta by the Nashville, Chattanooga & St. Louis Railroad Co., Hunter McDonald, chief engineer, Nashville, for the erection of its \$200,000 office building at Tenth avenue and Broadway. The building will be 8 stories and basement, 50 by 90 feet, of reinforced concrete frame faced with brick and terra cotta, with maple and terrazzo floors, and four-ply built-up roof over concrete slab. It will be equipped with a low pressure vacuum system of heat and two high speed passenger elevators. Plans have been prepared by the engineering department of the railroad company.

Varnish Factory to Begin Operations.

Mobile, Ala.—The plant of the Mobile Varnish Works will begin operations about September 1 and is expected to reach a capacity production by the first of the year. The building is of brick and will be served by side tracks on which fluid material will arrive on tank cars and be pumped into storage tanks. Tanks of 60,000 gallons are being installed and others will be added later, bringing the capacity to 100,000 gallons.

W. D. Gilman, Jr., of Chattanooga, is president of the company, whose other officers include A. H. Etz, secretary; E. V. Flinn, assistant secretary, and H. T. Scott, superintendent.

\$20,000,000 of Improvements at Port of Houston.

[Special Correspondence Manufacturers Record.]

Houston, Tex., August 18.

Developments either under way or assured will make an expenditure of close to \$20,000,000 for the Houston Ship Channel and its attendant industries within the next year. Improvements now planned call for an outlay of \$18,200,000. Those contemplated will set the total well beyond the \$20,000,000 mark.

Of the construction and improvements now going forward, \$6,020,000 is being spent by the Navigation & Canal Commission, the body created through a special State law to take over the development of the port from the city of Houston. Wharves, trackage, roads, a grain elevator and the necessary equipment for all of these will cost \$4,020,000. Another \$2,000,000 will be spent in dredging, the expense of this being borne by the commission and the United States Government.

The largest of the private improvements is that of the Sinclair Refining Company at Sinco. Wharfage of 1500 feet, doubling the capacity of the refining plant and the addition of high pressure stills and the necessary increase in storage capacity for both crude and refined oils, together with the pipe line connecting the plant with the fields of North Texas will necessitate the spending of \$7,000,000 by this concern.

While the Houston Lighting & Power Company will spend \$10,000,000 for its new power plant on the Ship Channel, only part of this will be finished this year. The plant will have capacity of 200,000 k. w. when all units are complete. But only 40,000 of this capacity will be provided with the construction to be completed this year, requiring an expenditure of \$2,000,000.

Another piece of private construction in the million dollar class is that of the Anderson-Clayton Company. A high density compress with warehouse and wharves will cost \$1,250,000.

Excavation is now under way for the first three of the six new wharf units to be constructed by the commission on the north side of the turning basin. The List & Gifford Construction Company of Dallas has the contract for removing 350,000 cubic yards of dirt, necessary to reducing the embankment from 40 to 18 feet, where the wharves will be built.

The contract for the first three of these wharf units will be let September 30 by the Navigation & Canal commission. Bids already have been advertised. The wharves will be of concrete and will have all modern facilities for unloading and loading cargoes.

By the time the three wharves have been completed, the contract will be let for the second trio of units on this side of the basin. The six units will complete the wharfage contemplated for the port at present and they will be 1720 feet long.

In addition to these wharves another unit is to be constructed by the Stevedore & Contracting Company on public property further down the channel. The Navigation & Canal Commission will acquire this wharf of 500 feet.

With all these wharves completed the capacity of the port will be increased 60 per cent, according to estimates from the office of the port director. There will be 12 units of wharfage.

Within 90 days the contract will be let for the first unit, capacity 1,000,000 bushels, of the public grain elevator to be built in connection with the wharves on the north side of the basin. With the present construction the workhouse will be designed to take care of 6,000,000 bushels of grain. Plans of the commission are to increase the elevator capacity to this figure. Unloading facilities from the elevator will be provided along the new wharfage to be constructed.

Bids are to be opened September 6 on the trackage neces-

sary for the new wharves and the elevator. Eight miles of trackage, to be used as a classification yard, will be built for the convenience of the increased port facilities.

Dredges are now at work on the first part of the work that will deepen the channel to 30 feet as far as Manchester. The work now under way will require the removal of 752,000 cubic yards of dirt from the bottom of the channel. The work in progress will increase the depth to a point below the Crown Oil Refinery. The larger part of the dredging is awaiting approval of Government engineers at Washington. This provides for the deepening from where the present work ceases to Manchester and will require the removal of 2,395,000 cubic yards of dirt.

The whole dredging work will involve an expenditure of \$2,000,000 and will take eight months.

In addition to construction work, the Navigation & Canal Commission recently has spent \$650,000 for land on which to put improvements or for holding to await contemplated improvements. Funds both for construction of the public facilities and the land necessary was provided last year through a bond issue of \$6,000,000.

Three private bits of improvement are now under way along the channel, each to cost a half million dollars. The Galena Signal Oil Co., Franklin, Pa. is to spend this amount on improvements and addition to its plant. New wharves and warehouses are being built by Alexander Sprunt & Son, Wilmington, N. C. at a cost of \$500,000. The Texas Portland Cement Company has a half million dollar plant addition under way.

The first seven months of 1923 showed an increase of 170 per cent in the business of the Houston port over 1921, with a 55 per cent increase over 1922. Imports in the first seven months of 1923 amounted to \$3,995,622, while exports were \$35,784,636. In that period 704 arrivals and departures were listed for the port.

The list of improvements assured for the port for the next few months is shown below:

Sinclair Refining Company—increased plant capacity 1500 ft. of new wharves, storage tanks and pipe line.....	\$7,000,000
Navigation & Canal Commission—six new wharves, grain elevator, trackage, roads and equipment	4,020,000
Navigation & Canal Commission and United States Government—dredging	2,000,000
Houston Lighting & Power Company—40,000 k. w. unit of 200,000 k. w. power plant.....	2,000,000
Anderson-Clayton Cotton Company—new wharves, new warehouse and compress.....	1,250,000
Alexander Sprunt & Son—new wharves and warehouse	500,000
Texas Portland Cement Company—plant additions	500,000
Galena-Signal Oil Company—plant additions.....	500,000
The Texas Company—new tankage and loading facilities	100,000
American Petroleum Company—tankage.....	100,000
Humble Oil & Refining Company—plant additions	100,000
Houston Oil Terminal Refining Company—new stills and other plant equipment.....	80,000
The Texas Chemical Company—plant additions..	50,000

Development for Avocado Production.

Homestead, Fla.—The Redland Grove Homes Co., capitalized at \$350,000, has been organized by local and New York interests for the purpose of exploiting the avocado in the vicinity of this city. The company will plant 160 acres of land to fruit about two miles from Homestead and plans to plant and sell lots adjoining the avocado groves.

Officers of the company are William Price, Miami, president; W. H. Messimer, Albany, N. Y., secretary, and W. K. Walton, Homestead, manager.

An Arkansas City Which Handled Over 112,000 Bales of Cotton Last Season.

BLYTHERVILLE GROWS FROM 300 POPULATION TO 10,000 IN TWENTY YEARS—A COMMUNITY ACTIVE IN NEW CONSTRUCTION AND IN AGRICULTURAL DEVELOPMENT.

By J. MELL BROOKS.

Blytheville, Ark., August 18.

In the season just passed, more than 112,000 bales of cotton were handled through Blytheville, and nearly as many bales were carried to other points because they could not be handled here. This year Blytheville will be able to handle every bale that is offered. The compress is enlarging

a nation average of 625, and a county average of 1666. At this time there are four new gins planned for Blytheville and seven more in the surrounding country.

A modern cotton seed oil mill is being built in the city and will be completed in time to crush seed from the coming crop. This mill will be a factor in drawing several thousand



15,000 BALES OF COTTON IN THE OPEN. WORTH \$2,250,000 AT \$150 A BALE.

Lack of cars for shipment swamped the compress and made storing in the open necessary. 30,000 bales are thus stored in different parts of this section.

its capacity fifty per cent and adding another press, and in addition there is to be another compress built.

Last season Blytheville had five cotton gins and ginned 40,000 bales which represents one bale of each 25 raised in Arkansas, and one of each 244 raised in the United States, and one of each raised in Mississippi County, Arkansas. This ginning was an average of 8000 bales per gin as against

additional bales here this year on account of the difference in price that seed cotton will bring; and will also be an incentive to dairying by making available dairy feeds at a lower cost to farmers.

The city is engaged in a heavy building program which includes among its projects, in addition to the compress enlargements, new compress, cotton gins and cotton oil mill;



FIELD OF COTTON 6 MILES WEST OF BLYTHERVILLE. YIELD $1\frac{1}{4}$ BALES PER ACRE.

a new home for the First National Bank, nine brick business houses, new Presbyterian church, three drive-in gas filling stations, a second ice plant, new laundry, and about 100 new residences. The city is to pave all alleys in the business section, and all streets in the residence section that are not now paved. It is planned to complete the work this

The outlook is extremely bright. Farmers and settlers are coming here from all parts of the country. There is an ample supply of American labor, and living costs for that labor are low. Raw materials are plentiful for manufacturing purposes and prices are reasonable for land and business and industrial locations.



26 CARS CARRYING 1690 BALES OF COTTON INTO THE BLYTHEVILLE COMPRESS, OCTOBER 27, 1922.

On account of shortage of box cars 50,000 bales were moved in this section on flat cars.

summer. All this building will represent an expenditure of more than \$2,000,000.

Blytheville twenty years ago was only an inland settlement with no rail connections with the outside world, and with a population of only 302 persons. Today there are four railroads entering the city, the Frisco, the Cotton Belt, the Jonesboro Lake City and Eastern and the Blytheville, Leachville and Arkansas Southern. Transportation facilities are very good. Concrete and hard surfaced roads are being built across the country in all four directions from Blytheville, these roads tapping a most productive section of country.

An area of more than half a million acres of alluvial soil surrounds Blytheville. Only about fifty per cent of this enormous acreage is now cultivated, but each year sees thousands of additional acres put under the plow and into intensive cultivation. The land yields per acre a bale of cotton, seventy-five bushels of corn, thirty bushels of wheat, and an abundance of all crops that grow in the cotton belt. Development is going forward on every acre cleared as soon as the timber is cut from the lands. Large owners are selling their cut over lands at reasonable prices and on long terms, thus extending material financial aid to purchasers. White farmers are being placed on tracts which they can handle and develop into homes. This policy is building up a most solid agricultural community.

As an example of the substantial character of the foundation on which Blytheville has been built, a single illustration will suffice. The period of national deflation and low prices for farm products hit the city on top of a bank failure, causing the people of the community a financial loss of more than a million dollars. In 1922 the city and county had recovered to such an extent that 99 per cent of all chattel mortgages were paid and large numbers of farmers have sufficient cash balances to carry themselves through this crop year; bank deposits are the greatest in the history of Blytheville; large numbers of persons are buying and building farms and homes; and general prosperity is being experienced by the city and surrounding country.

As an example of the city's steady and healthy growth: In 1900 there were 302 people; in 1910 over 3400; in 1920 6447; and the city directory just completed shows that there are now living in Blytheville 10,011 people.

Provision is being made to handle 200,000 bales of cotton in Blytheville in 1923.

Officers for Norfolk Sugar Refining Company.

Norfolk, Va.—Temporary officers for the Norfolk Sugar Refining Co., which will build a \$3,600,000 sugar refinery at Sewalls Point, have been chosen as follows: S. S. Lees, president; R. A. Monks, vice-president, and Eldridge H. Brooks, secretary, all of New York, and J. B. Morgan of Norfolk, treasurer. Directors of the company, in addition to the officers, include Robert L. Mallet of New York, and H. B. Calwell and R. B. Tucker of Norfolk, Tazewell Taylor of Norfolk is chief counsel.

As previously detailed in the MANUFACTURERS RECORD, the Norfolk Sugar Refining Co. has purchased 26 acres of land for the erection of its plant and it is proposed to dredge a slip 100 feet wide and 700 feet long in order to secure adequate water transportation. The dredging will be done by the city.

Dothan to Build \$800,000 Hydro-Electric Plant.

Legal objections which have halted the construction of an \$800,000 hydro-electric plant at Chalkers Bluff for the city of Dothan, Ala., have been removed, and it is announced that the plant will be built without further delay, contract having been awarded to the Brooks-Callaway Co. of Atlanta, who wire the MANUFACTURERS RECORD:

"Hydro-electric plant at Chalkers Bluff for City of Dothan. The Ludlow Engineers, Winston-Salem, N. C., are engineers. Two hundred foot concrete spillway and one mile earth dam, thirty-foot head; 25 miles transmission lines; power house with two units, total 3000 horse power with provision for two more units later, making total capacity 6000 horse power."

The Growth of the Southern Furniture Industry.

High Point, N. C., Aug. 18—[Special]—The Semi-Annual Mid-Summer Market held at the Southern Furniture Exposition Building, here, for the furniture dealers and buyers of the nation brought visitors from practically every state in the Union. About 500 Southern furniture dealers visited the market and formed about 60 per cent of the total attendance. Most furniture dealers are having a successful year from volume standpoint. Their turnover in merchandise has been rapid and profitable.

The educational features of a furniture market are being brought home to the dealer through the advertising the markets are doing, through the efforts of the manufacturers to display merchandise more effectively and attractively and indirectly through the great organized movements toward the betterment of the American home, its furnishings, etc. The furniture dealer is being forced to know more about his job, but he is not to be forced to overload his stock in many cases with strange merchandise. And because for six months the market has been rising and also because the demand of the public has been changing, the furniture dealer unwittingly contributed greatly toward stabilizing the furniture industry by the conservative buying policy.

From a statistical point of view as well as an actual fact the furniture industry in the South today is an outstanding example of progressive prosperity. In 1910 there were 83 factories in North Carolina alone with an annual output valued at \$11,232,000. In 1922 there were 107 factories with an output valued at \$30,288,761. Actual sales would doubtless run \$5,000,000 greater. During this time the value of capital invested jumped from \$3,000,000 to \$6,000,000. 15,307 carloads of furniture made in the South were handled during 1922, against 8986 the previous year showing an increase of 68 per cent. Considering that the total increase for the country as a whole was but 43 per cent, the unusually rapid growth of this industry in the South is more apparent.

This year over 800 buyers visited the market at Exposition Building. Last year approximately half that number attended and the market is but two years old. While the South produces 20 per cent of the wooden household furniture made in this country, barely half of this output is sold in the South. Today Southern made furniture is becoming known throughout the world as a standard for quality, workmanship and design and it is sold at a reasonable price. The greatest reason for the success of Southern made furniture is that it is designed, fashioned, and made by white native-born American citizens, most of whom own their own homes.

Such has been the growth of an industry started 35 years ago, due to the fact that the raw materials necessary were at the door. Today these materials are drawn from all parts of the world. Starting with little capital and no skilled labor, the industry has developed its own financial resources and its own artisans. Its rapid progress and growth manifested during the last few years argues well for the wonderful industrial future of the South.

Knoxville Will Vote on \$1,750,000 Bonds for Market-Auditorium Building and Schools.

Knoxville, Tenn.—At its general election on September 29, the city of Knoxville will vote on a bond issue not in excess of \$750,000 for the erection of a market house and auditorium in North Knoxville and \$1,000,000 for building schools. Roy H. Beeler, city attorney, announces that he will draw an ordinance at once, calling for the election on the two proposed bond issues. This may be presented at the next meeting of the city commission.

Authority for the referendum is provided in two measures passed at the recent session of the state legislature.

Tennessee Electric Power Company Files Application for Permits to Develop Three Hydro-Electric Power Projects—To Develop 160,000 Horse Power at Cost of \$18,500,000.

Chattanooga, Tenn.—Application has been filed by the Tennessee Electric Power Co., B. C. Edgar, vice-president and general manager, with the Federal Power Commission at Washington for permission to develop three hydro-electric power projects on Clinch and Powell rivers in Tennessee to a capacity of 160,000 horse power at an estimated cost of \$18,500,000.

These developments include an 80,000-horse power project on Clinch River near the mouth of Coal Creek, to cost \$9,000,000; 50,000 to 60,000-horse power development on Clinch River above Coal Creek to cost \$7,000,000, and a 20,000-horse power development on Powell River, a tributary of Clinch River, to cost \$2,500,000.

It is stated that the company plans to begin work on the project near the mouth of Coal Creek in 1925 and have it in operation in 1929, the construction to include a 175-foot dam across the river. The second project above Coal Creek will have a 160-foot dam and the one on Powell River a 175-foot dam.

\$500,000 Improvements at Thacker Coal Mines.

Williamson, W. Va., August 20—[Special]—Improvements now under way at the Thacker plant of the Thacker Coal & Coke Co., of which T. E. Houston, of Cincinnati, is the president, will cost when completed approximately \$500,000. In addition to other improvements, including the driving of new openings, the company is building a modern coal tippie. Coal on the west side of the creek where the Thacker Coal & Coke Co. operates has not heretofore been touched, but work on the driving entries and turning off rooms is now progressing.

It is proposed to load coal from the east side as well as the west side over the one tippie now under construction. A tract of 1100 acres on the east side of the creek will be immediately developed. As showing the thorough preparations made for handling a heavy volume of fuel from the mine, 60-pound rails are being laid in the outside haulways.

The new tippie is to be of the endless chain and conveyor type and will be a "five-way tippie," that is, a tippie over which all grades of coal may be loaded into railroad cars simultaneously. Work has been virtually completed on the conveyor on the east side of the creek and it will be possible to begin loading coal with the use of that conveyor by September 1. New stone head houses are being constructed and stone retaining walls are being built to hold the outside trackage. It is also proposed to install new mining machines and to put into commission many new mine cars, of steel with solid ends.

Bainbridge Hotel to Cost \$1,100,000.

Kansas City, Mo., August 17—[Special.]—Additional information has been secured relative to the building of the proposed Bainbridge Hotel here, to which the MANUFACTURERS RECORD made mention recently. The structure will be erected by the Bainbridge Hotel Co., in which C. E. Gilbreath and others are interested, and construction bids will be opened about September 1. It will be 14 stories, approximately 2,300,000 cubic feet, of fireproof construction, steel, concrete, stone, brick and terra cotta. Plans include a roof garden, vaults, mail chutes, ventilators, concrete floors, three passenger and one freight elevators.

George B. Post & Sons of Kansas City are the architects and Alonzo H. Gentry, local manager, is the supervising architect.

RICH FARM LANDS OFFERED WITHOUT ANY PAYMENT FOR FIVE YEARS.

A Movement for Small Farms in Lower Mississippi Country to Be Owned and Worked by White Farmers.

Memphis, Tenn., August 18—[Special.]—Faced with a growing shortage of farm labor, brought about chiefly through the steady movement of negroes to industrial centers of the northern states, owners of large areas of undeveloped land in the immediate lower Mississippi Valley, seeking a new type of white farmer-settlers, have taken the longest step toward placing farms within the reach of the average white farm laborer, renter and embryo farmer this year that probably ever has been of record in the marketing of farm lands in the Southern states.

No cash payment in advance, no cash payments at all for the first years, and then annual payments spread through a long period of years, is the inducement the land owners now are offering in order that their idle lands may be put under the plow, according to an announcement made through the Southern Alluvial Land Owners Association, an organization of the largest landowners in the Central South.

While by no means customary, it has not been unusual for owners to sell farm tracts without requiring a large cash payment in advance, especially in the last three years of depression in the land market. In such cases however, it has been customary to require "paying out" in less than 10 years beginning at the end of the first year.

The new policy of asking no cash whatever in the first five years is viewed as almost a revolutionary move. It is declared that it will mean the placing of lands within the reach of any honest, energetic white farmer, either young farmer just starting, farmer of the renter type who never has had sufficient capital to finance a purchase, or the average "small" farmer who has been on the threshold of ownership without being quite able to realize his ambition.

Not only are several of the large land owning concerns, chiefly the great lumbering corporations in the hardwood area in the immediate lower Mississippi Valley, holding out the no-cash inducement but several have mature plans that provide for advancing the cost of the construction of a farm residence of modest proportions. The buyer of a small farm may have his house erected without cash payment and without any payment whatever until the fifth year when he begins paying for his land. Payments then are on the amortization plan and the entire debt is wiped out in from 12 to 20 years.

Different land owners have slight variations in the plan as a whole but the basic idea with most is to make it possible for the average white farmer to buy on a basis equal to or even below rent, which, in average cases, is about \$10 per acre per year. Lands offered lie in what is known as the delta or alluvial soil portions of the lower valley, the soil of which corresponds to "bottom land," being very fertile and productive. Tracts in sizes from 40 to 160 acres are offered under the new system, with many cases of 40 acre farms being sold and an adjoining 40 or 80 acres held by the owning company for the purchaser to buy later on if he cares for more land and is successful with his initial 40 acres.

Illustrative of the movement in the plan just announced by the Chicago Mill & Lumber Company, an exclusively lumbering firm which is throwing open thousands of acres from which it has cut the marketable timber. Prior to January, 1921, the company had sold 41,000 acres of lands, chiefly in Southeast Missouri and Northeast Arkansas, to 615 individuals on terms that required an initial cash payment with the balance due in yearly installments within five years. No steps were taken to aid the purchaser in either building or financing his place, his home or other improvements.

Disturbing effects of after-the-war period resulted in a newer and more liberal policy the chief feature of which was

sale of land without cash payment but with a proviso that a certain per cent of the farm be cleared up and put in cultivation. This was viewed as a long step toward aiding the prospective farm owner who, while unable to finance a purchase, was in position to use his ready funds in making improvements. Upwards of 100 farmers availed themselves of this chance to own their own farms.

While viewed as very attractive, the plan did not meet the aims to get good land in the hands of many deserving men because it excluded the large class of farmers who rented land from year to year under prevailing high rentals that left little margin for laying aside the "nest egg."

The next policy of sales, applying to something like 8000 acres of lands chiefly in Eastern and Northeastern Arkansas, was the no-cash-payment-in-five-years plan. In announcing it, the company says:

"There will be no payment of interest or principal before the end of the fifth year. The first four years, you pay the taxes and clear the lands. Beginning the fifth year you pay for the farm in 14 equal annual installments under an amortization plan similar to that of the Federal Land Banks. If we build a house for you, your annual payments after the first four years, which includes interest and principal, will figure about \$10 per acre. If you build your own house the annual payments will be proportionately less. Privilege is given of taking up any part or all of the indebtedness on any annual payment date before due."

At the Memphis offices of the Chicago Mill & Lumber Company it was said that the new system of placing land within the reach of the "great mass" had met with instant response. Other companies having similar policies with perhaps slight variations, reported that there had been a decided impetus in farm purchases by men who otherwise entertained little hope of owning their own places. In the great majority of cases the sales have been to local people, young farmers and "small" farmers familiar with the rich soil and understanding the local farming conditions. It has attracted particularly the "hill" farmers.

The throwing open of delta lands in southeast Missouri, Eastern Arkansas, Northwestern Mississippi and Northeastern Louisiana on liberal terms of purchase in the last few years is responsible, in the view of many for an average increase in population since 1910 of more than 25 per cent for every county in the immediate lower Valley. Mississippi County, Arkansas, for instance, has advanced until it now leads not only Arkansas as an agricultural state, but it is the greatest cotton producing county in the world. The county seat, Blytheville, had a population of 302 people in 1900. The population in 1920 was in excess of 6000 and a new city directory census credits the town with having 10,011 people as of July 1, 1923, perhaps the most phenomenal growth of any purely agricultural community in the United States.

A continued migration of negro farm labor which will prevent the development and cultivation of large areas of land under one ownership, and the growing tendency to cut up large holdings and place small tracts in the hands of farmers who will do their own work, is in evidence throughout the lower valley region. It is being encouraged not alone by the large landowners themselves but by the banks and business houses and also by chambers of commerce and similar organizations. Labor conditions, according to the Southern Alluvial Land Owners Association, are probably of first rank in stimulating the movement.

C. E. COLLINS.

Will Build 50 Residences at Wheeling.

Wheeling, W. Va.—The development of 20 acres of land west of Center Warwood avenue here will soon be undertaken by the Moyers Co. of Akron, Ohio, which has purchased the property and plans to erect 50 residences. Sewer and gas lines were already installed. New surveys are under way.

Extracting Edible Oil from Pimento Seed as a Possible Industry for South.

Burruss Engineering Co.
Atlanta, Ga., August 17.

Editor Manufacturers Record:

At present we are crushing pimento seed for oil and as this is, so far as we know, a new vegetable oil on the market it may be of some general interest. About sixty tons of the pimento pepper seed were shipped from a canning factory located at Griffin, Georgia, to Atlanta, where it is being crushed on an expeller in one of the cottonseed oil mills. These seed are a by-product secured when canning the pimentos. They are clean, dry, and have never heated, or fermented. An analysis shows they contain nine per cent moisture, between 18 and 19 per cent oil and 3.2 per cent ammonia. There is available from 35 to 40 gallons of oil per ton, and about 1650 pounds of cake or meal is secured that will analyse 6 per cent moisture, 6 per cent oil, 3.22 per cent nitrogen, 3.91 per cent ammonia, 20.13 per cent protein. The process of crushing consists of grinding the seed on an attrition mill after which they are passed through an expeller equipped with a dryer or "tempering apparatus." About 300 pounds of seed per hour is the capacity of one expeller. The oil is settled and will be refined after operations are completed.

The crude oil is noticeable for its very dark red color and pimento flavor. It contains 2.30 per cent free fatty acid and refines with a 7.90 per cent loss. The chemist describes the refined oil as a "dark red color," "flavor pleasant" and adds that in his opinion "This product can be used as an edible salad oil."

There is nothing "hot" about the oil. As we understand, no part of a pimento pepper has the hot taste common to most varieties of peppers. While neither the whole seed, the seed after they are ground, nor the cake after the oil is pressed out shows any noticeable red color; it is a distinct feature of the oil. No attempt has been made to bleach or remove this red color from the refined oil.

The meal will be used for stock feed. It should be particularly adapted to a feed for poultry.

Whether the crushing of pimento seed becomes a regular industry depends on the sale value of the oil. If there is a place for it as an edible oil at a price approximating that of edible olive oil, machinery will be installed at the canning factory to utilize this by-product.

It is our understanding that there is available now between 100 and 150 tons of seed each year. This would mean a regular supply of pimento oil of approximately 3500 to 6000 gallons a year, from one canning factory.

We might add that we would be glad to send samples of crude oil, refined oil, or the cake to any responsible parties who are interested.

FRED W. BURRUSS, Vice-President.

Harbison-Walker Company Buys Bessemer Site—Reported to Build \$600,000 Plant.

Relative to recent reports that construction will soon be started on a \$600,000 plant at Bessemer, Ala., for the Harbison-Walker Refractories Co. of Pittsburgh, Pa. which has purchased a site from the Bessemer Coal, Iron & Railroad Co., the former company wires the MANUFACTURERS RECORD: "Have purchased land, but further than this no definite plans for any construction work."

It is stated that the property purchased contains ten city blocks, is convenient to railroad lines, and spur tracks may be built at a comparatively small cost. The plant, it is said, will manufacture tile, fire brick and other clay products, employing more than 300 men.

Union Miners, Defeated, Now Authorized to Apply for Their Old Jobs.

Somerset, Pa., August 18—[Special.]—The United Mine Workers of America having reached a decision to abandon the strike of about 2500 miners in the Somerset field of Pennsylvania, that district once again becomes completely an open-shop district, with all the mines operated on such a basis. The strike as a matter of fact has only existed on paper for the last year, for although 2500 miners who did join the nation-wide strike of 1922 refused to go back to work, their places were long ago filled and the mines at which they had been working have been operated for the last year on almost a normal basis.

In the meantime the continued strike of the 2500 men has only been a source of expense—not to the union or the union treasury—but to miners in organized districts who have been assessed to wage a losing struggle. The question, of course, involved in the Somerset field was recognition of the union and acceptance of the check-off, which has been used so far as union fields are concerned, in an attempt to organize the Somerset district.

The only plants even remotely affected by the attempt to keep men on strike because of the refusal to recognize the union have been those at Jerome, Hooversville, Boswell, Ralphon and Gray and as stated new men have been manning the mines at those points since the union kept the 2500 on strike. Now, as the result of a conference between John Brophy, president of sub-district 2 and the executive committee of the district, the men are to be permitted to apply for their old jobs if they can secure them.

The union attributes its defeat to what it calls "the weak-mindedness, selfishness and un-Americanism of the strike-breakers."

Funds from Georgia Gasoline Tax to Be Used to Retire Railroad Bonds and for Highway Maintenance.

Atlanta, Ga., August 14—[Special.]—The Mann bill, increasing the state tax on gasoline from 1 to 3 cents per gallon, was signed today by Governor Clifford Walker and will go into effect on October 1.

Funds received from this source will be divided into three appropriations as follows: One-third of the money received will be used in retiring outstanding Western and Atlantic railroad bonds; one-third will go to the Highway Department for maintenance and construction; and one-third will be apportioned among the various counties of the state on the basis of each county's total mileage of federal highways used by the rural free delivery service.

When the bonds of the Western and Atlantic railroad are retired, the remaining third of the money received will go to the state Highway Department for use in road-building and maintenance.

The three-cent tax will be collected in the same manner by retail dealers as was the old tax of one cent. It is expected to increase the state's revenue for the remainder of the fiscal year by more than \$2,000,000.

Building and Loan Association Capitalized at \$10,000,000—May Erect Building.

Chattanooga, Tenn., August 17—[Special.]—Incorporated with a special stock of \$10,000,000, the Tennessee Mutual Building & Loan Association, Inc. of this city has organized with the following officers: A. Henderson, president; C. E. Server, vice-president; J. E. Williams, secretary and treasurer, and Charles C. Peterson, assistant secretary and treasurer.

A building may be erected by the association.

Supply and Distribution of American Cotton.

The following preliminary statement issued by the Department of Commerce, presents the supply and distribution of cotton in the United States for the twelve months ending July 31, 1923. The quantities are given in running bales, counting round as half bales, except that foreign cotton is in equivalent 500-pound bales. Linters, the short fiber obtained by the oil mills from cotton seed, are not included:

SUPPLY.		(Bales)
Aggregate		13,610,218
Stocks Aug. 1, 1922, total	1,218,388	2,831,553
In consuming establishments, total		
In cotton-growing states	531,312	
In all other states	687,076	
In public storage and at com- presses, total	1,488,165	
In cotton-growing states	1,123,101	
In all other states	365,064	
Elsewhere (estimated)	125,000	
Ginnings		9,729,306
Imported Aug. 1 to July 31, 1923 ..		469,954
To balance distribution		579,405
DISTRIBUTION.		
Aggregate		13,610,218
Consumed Aug. 1, 1922 to July 31, 1923, total		6,664,710
In cotton-growing states	4,248,525	
In all other states	2,416,185	
Exported Aug. 1, 1922 to July 31, 1923 ..		4,822,589
Burned		35,000
Stocks July 31, 1923, total		2,087,919
In consuming establishments, total	1,089,230	
In cotton-growing states	532,203	
In all other states	557,027	
In public storage and at com- presses, total	938,689	
In cotton-growing states	752,888	
In all other states	185,801	
Elsewhere (estimated)	60,000	

During the cotton year ended July 21, 1923, 6,664,710 bales of cotton, exclusive of linters, were consumed in the United States compared with 5,909,820 bales for 1922, and 6,419,734 in 1920. Exports of cotton, exclusive of linters, during the year amounted to 4,822,589 bales compared with 6,184,094 bales for 1922. On July 31, 1923, the carry-over of cotton in the United States was 2,087,919 bales compared with 2,831,553 bales in 1922, and 634,360 bales in 1921 which excessive carry-over enabled a cotton famine to be averted.

Cotton spindles in place on July 31, 1923, exclusive of doubling and twisting spindles, number 37,397,331, compared with 36,945,554 in 1922, 36,617,584 in 1921, and 35,834,463 in 1920, the increase during the past year being 451,777 spindles over 1922.

Will Vote on Water Improvement District.

Tulsa, Okla.—At an election August 31 the question of establishing Tulsa County water improvement district No. 1 will be voted on, the district comprising a strip of land north of the Tulsa city limits to Skiatook, including the towns of Turley, Sperry and Skiatook. The following officers for the district will also be voted on: E. B. Greishaber, R. Martin and Fred Lowther as commissioners; W. J. Ruyle as secretary and A. E. Townsend as treasurer.

If a favorable vote is recorded, the district will be organized and a pipe line constructed from the 30-inch pressure main leading to the high pressure reservoir north of the city to the three towns mentioned.

Rebuilding 2000 Cars.

Birmingham, Ala.—Two thousand rebuilt box cars with steel underframes will be turned out of Southern Railway System shops during the next few months. The underframes will be fabricated in Birmingham by the Virginia Bridge & Iron Company and the work of applying them and of rebuilding the cars will be done in the Southern's own shops throughout the South. These cars will be in addition to 9000 new box cars, purchased during 1922 and 1923, of which over 6000 are already in service. The Southern will also soon receive 66 locomotives, 4865 coal cars and 200 stock cars ordered in the spring.

IMMENSE WATER POWER DEVELOPMENT ON WHITE RIVER.

Arkansas and Missouri Project to Involve Expenditure of \$25,000,000 to \$30,000,000—Will Develop 160,000 Primary Electrical Horse Power.

Further details have been furnished to the MANUFACTURERS RECORD by Hugh L. Cooper & Co. of New York relative to the proposed water power development in Arkansas and Missouri, which is estimated to cost from \$25,000,000 to \$30,000,000, and for which that company was reported by the MANUFACTURERS RECORD several weeks ago as making preliminary investigations.

The company has secured an option on all rights and holdings of the Dixie Power Company, of St. Louis, for the development of water power on the White River in the two states mentioned. The development has been under consideration for more than ten years. In 1912 the Dixie Power Company was refused a perpetual franchise. On June 10, 1920, the Federal Water Power Act became a law and the White River project was granted Permit No. 1.

An extensive topographical survey, water supply investigations, etc., have been made by the Dixie Power Company involving a study of the whole White River terrain from Cotter to Forsyth, in the heart of the Ozark Mountains. The watershed above Cotter is roughly 6200 square miles, with an annual average rainfall of about 45 inches. Hugh L. Cooper & Co., under contract with the North American Company, has commenced a complete study of the surveys, water supply data, overflow damages, etc., and will make necessary diamond drill borings of the dam site. These studies and explorations should be completed during the coming fall, and construction work early in 1924 is a possibility.

The Dixie Power Company is chartered and authorized by the State of Arkansas to construct water power projects on the White River, and all state authorities seem eager to have this great development go forward, according to the announcement.

It is proposed to construct a special, arch type, concrete dam 225 feet in height, its base being about 1000 feet in length and 1800 feet at the crest, establishing an artificial lake nearly 100 miles long covering over 50,000 acres.

After power requirements in the vicinity of this development in Arkansas and Missouri have been taken care of, the balance of the power will probably be transmitted to St. Louis, to be used by the Missouri subsidiaries of the North American Company.

The White River project will develop around 160,000 primary electrical horsepower, and will call for a high tension transmission line some 240 miles from the project to St. Louis.

Reinforced Concrete Bonded Warehouse at Raleigh.

Raleigh, N. C., August 18—[Special]—The construction of a steel and reinforced concrete building has been started here by the Bonded Warehouse Co., E. C. Hillyear, proprietor. The first unit will be 70 by 250 feet, three stories, with 50,000 feet of floor space. This unit will be followed by a second of the same size when needed.

The building will be equipped with overhead electric traveling cranes, electric floor trucks, conveyors and other facilities adapted to unloading cars and the distribution of merchandise throughout the building, as well as delivering goods to patrons at team platforms.

It is the purpose of the company to handle merchandise in car lots from manufacturers all over the country for distribution in this territory by their local agents, and also to meet the needs of local storage merchants, contractors and others in any desired quantity of floor space.

The West Unites for a Protective Tariff on Economic Grounds Without Regard to Politics.

[Telegram to Manufacturers Record.]

Denver, Colo., August 20.

Eight Western governors have joined with Western producers in calling a Western Tariff Congress to meet in Denver the early part of October, the exact date to be fixed later according to announcement from headquarters of the newly formed Western Tariff Association, with Western headquarters in this city.

The convention will be similar to those held by the Southern Tariff Association in Southern states during the past three years and will bear the same relation to productive industries of the West as the Southern organization holds to those of the South. Frank J. Hagenbarth of Salt Lake City, known throughout the nation, for his activities as president of the National Wool Growers Association, is chairman of the Congress. J. A. Arnold, active head of the Southern Tariff Association, is manager of the organization. Following along the lines of the Southern organization the Western Association will be strictly non-partisan and will discuss the tariff from an economic and not a political standpoint.

In a statement by former governor Ammons, it is declared that the Congress has for its primary purpose taking the tariff out of partisan politics, creating a medium for the discussion of the tariff and other economic issues which affect the welfare of Western producers, and to assist in maintaining the present tariff duties upon Western products. "It is to be a Congress in which free traders, tariff for revenue, competitive tariff, and protective tariff advocates can participate without surrendering their political views," he stated. "Regardless of political convictions on tariff policies of government, we can surely all agree that the tariff should be treated as an economic issue, that the farmers of the West are entitled to the same treatment as the manufacturers of the East, that the men who toil upon the farms, in the mines and factories of this country should not be brought into destructive competition with pauper labor of Europe, and that our products in the present tariff act should be given a fair trial before making any reduction."

The Congress will be composed of delegates from industries of Western states and every line of productive industry is expected to be represented. John H. Kirby, president of the Southern Tariff Association joined with Chairman Hagenbarth in calling the Congress.

Western Men Form a Protective Tariff Association.

Washington, Aug. 18—[Special]—Headquarters were opened today in the Munsey Building by the Western Tariff Association, a companion organization to the Southern Tariff Association. The new organization holds authority to speak for united western industry in the matter of tariff legislation, and will bear the same relation to the producers of the West that the Southern Tariff Association holds to those of the South. Officials of the new organization are: Frank J. Hagenbarth, of Salt Lake City, Utah, Chairman, J. A. Arnold, Washington, Manager, and in addition to the Washington office, Western headquarters will be maintained in Denver.

Vice presidents of the organization are: J. L. Gordon, Cheyenne, Wyo.; Prager Miller, Roswell, N. M.; W. A. Crane, Salt Lake City, Utah; J. J. John, Prescott, Ariz.; Clark G. Mitchell, Denver, Col.; C. H. Williams, Helena, Mont.; T. J. Drumbheller, Prosser, Wash.; Jerry Sheehan, Reno, Nev.; J. S. Heckaman, Moscow, Idaho; H. G. Carr, Porterville, Calif.

Chicago Capitalist Buys 1000 Acres West Virginia Coal Lands—Price Reported at Over \$600,000.

Fairmont, W. Va.—A coal land deal involving the transfer of 1000 acres of the Sewickley field to Mortimer L. Hudson, secretary of the Edward Hines Lumber Co. of Chicago, has been consummated, the consideration reported as between \$600,000 and \$700,000. Deeds conveying the properties cover the holdings and plant of the Rivesville Coal Co., limited holdings of the New England Fuel & Transportation Co., which consists of Sewickley coal land on Pharaoh's Run north of Rivesville, and the holdings of John F. Phillips, C. D. Robinson and Jacob F. Straight.

It is stated that Mr. Straight, who is the secretary of the Rivesville Coal Co., will manage and operate the properties for the purchaser, and that Harry J. Hawkins will be in charge of offices in the Deveny Building here.

Rumors have been current in Fairmont for some time that the Howard Hines Lumber Co. would engage in coal operations in the Fairmont territory, and that the company is actively planning to build a railroad along Indian Creek in Monongalia County to develop virgin coal lands along that stream.

Baltimore Capitalists Buy 400 Acres for Home Development—\$1,000,000 Purchase Will Become High Class Residential Section.

The development of the Perine estate, a property of 400 acres on Charles street extended, Baltimore, will soon begin by James Carey Martien, Robert Garrett and Edward H. Bouton, all of Baltimore, who have purchased the estate and plan to make it a high class residential development. No announcement has been made relative to the cost of the property, but it is generally thought the purchase price was in excess of \$1,000,000. The character of the development will be similar to that of Roland Park and Guilford, both in Baltimore.

Detailed plans have not been worked out, although Olmsted Brothers of Brookline, Mass. have been engaged as landscape architects. The property is located on both sides of Charles street extended and is about three-fourths of a mile inside the city limits.

Contract Let for Dix River Dam—Will Develop 30,000 Horse Power.

As a part of the big development program of the Kentucky Utilities Co. of Louisville, which is expected to involve an expenditure of \$5,400,000 for building hydro-electric plants, extension of transmission lines and for other facilities in Kentucky, the Kentucky Hydro Electric Co., a subsidiary, has awarded contract for a dam on Dix River near High Bridge, Ky. In connection with this contract, L. B. Harrington, vice-president of the Kentucky Utilities Co., wires the MANUFACTURERS RECORD:

"Kentucky Hydro-Electric Co. organized to build and operate 30,000 horse power hydro-electric plant on Dix River. Contract for dam 270 feet high near High Bridge awarded to L. E. Myers Co., Mohadnock Building, Chicago."

Site Purchased for Boys' High School.

New Orleans, La.—P. B. Habans, secretary of the Orleans Parish School Board, states that an area comprising three squares of ground bounded by Nashville avenue, South Claiborne avenue, Hurstville street and Storey street, has been purchased as the site for an up-town boys' high school. Plans for the building are being prepared by E. A. Christy of New Orleans and call for a structure to accommodate from 1500 to 2000 pupils.

The school board will also erect an up-town high school for girls.

Permanent Camp for Boys and Girls at Georgia State College of Agriculture.

Athens, Ga., August 18—[Special.]—A permanent camp for club boys and girls has been donated to the Georgia State College of Agriculture by John J. Wilkins of Athens.

This announcement came at the close of the special week's course for club boys and girls at the state university—a course attended by some 600 boys and girls from every section of the state.

The camp will be located near the State Agricultural College and will consist of permanent huts for the boys and girls. All modern conveniences, including recreational features, will be provided, and the students will be given instruction in agriculture and home economics by the summer school staff of the college.

Contracts Let for \$400,000 Biology Building for University of Texas.

Austin, Tex., August 20—[Special.]—Contracts have been awarded for the erection of the proposed \$400,000 biology building here for the University of Texas, Wattinger Bros. of Austin, securing the general contract at \$318,640. Others include plumbing, to Chalkley Bros., San Antonio, at \$20,679; heating, John L. Martin, Austin, at \$14,558 (no boiler); electric elevators, Otis Elevator Co., New York, \$4260. Lighting is included in the general contract.

The building will be 66 by 192 feet, 4 stories and basement, of reinforced concrete, cut stone, brick and terra cotta construction; hollow fireproof and interior tile, with metal doors and vaults. The Herbert M. Greene Co. of Dallas is the architect.

Secures Temporary Permit for Water Power Project at Falls of Ohio.

Louisville, Ky.—A temporary permit has been granted to the Louisville Hydro-Electric Co., a subsidiary of the Louisville Gas & Electric Co., by the Federal Power Commission at Washington, for a water power development at the falls of the Ohio River near Louisville. This action was in accordance with a recommendation of the commission's engineers in a report on the project about a month ago.

\$1,300,000 Hotel of 12 Stories for Nashville.

Preliminary plans are being drawn by Marr & Holman of Nashville, Tenn., for the erection of a large hotel in that city, estimated to cost \$1,300,000. It will be of Italian design and modern in construction and equipment. The architects wire the MANUFACTURERS RECORD:

"Hotel will be 12 stories, constructed of steel and reinforced concrete with marble and brick facing; 280 rooms; dimensions of site, 185 by 280 feet; owner's name not ready to be announced; preliminary plans."

Will Build \$250,000 Health Resort.

Atlanta, Ga.—A company of which Dr. W. W. Blackman of this city is president, plans to build a health resort on Peachtree Road here at a cost of \$250,000 and it is said construction will soon begin. Plans are being made by E. C. Wachendorff of Atlanta.

Tennis courts and a golf course will be laid out in the rear of the buildings, while a gymnasium and auditorium will be included in the main structure.

Hamas Temple, Meridian, Miss., has awarded contract to Wetmore & Priester, local contractors, to erect its proposed \$200,000 mosque, for which Emile Weil, of New Orleans is the architect.

Atlanta Completing \$4,000,000 School Building Program—Thirteen New Buildings Erected and Three Old Structures Improved.

Atlanta, Ga., August 18—[Special.]—By September Atlanta will have completed a remarkable school building and replacement program. Thirteen new school buildings will be complete and ready for occupancy, involving an expenditure of over \$4,000,000.

By October 1, the first units of Atlanta's two \$1,000,000 senior high schools will be well under construction.

Schools being finished include nine grammar schools and four junior high schools, among the latter being a junior high school for colored pupils—one of the finest of its kind in the South. In addition to these new units, three of the older buildings have been improved and enlarged to meet changing conditions.

Atlanta was a long time getting started on its school building program. Many of the schools were old structures without adequate fire protection. In many instances there was not room enough for the children in the neighborhood. Not a few had to be sent to private schools or do without an education.

Two years ago the citizens demanded an adequate school system. A bond issue was proposed, carrying \$4,000,000 for schools, and money for the Spring street viaduct, enlargement of the water works, and other badly needed improvements.

People said that bond issue would never be passed—that Atlanta would never stand for the increase in taxes. But Atlanta voters went to the polls and passed the issue so quickly the originators were sorry they hadn't made it ten million dollars instead of six.

Then came the processes of selling the bonds, finding sites and deciding upon a definite plan of construction and of securing contractors and supplies. It all took time but a common design and workable plans were finally evolved. Sites were secured one by one, a building was started—then two and three—and in a little while new school buildings were being built in every section of the city. Most of them are well on the way to completion now and Atlanta has every reason to be proud of them.

They are good looking buildings from an architectural standpoint and are structurally well built. They are all of fireproof construction—stone brick and concrete. Construction has been carried forward on the unit plan, provision being made for future expansion.

\$400,000 Improvements to Beaumont Docks and Wharves.

Beaumont, Tex.—An expenditure of \$400,000 during the year will be made by the Beaumont Wharf and Dock Commission for the improvement of wharf and dock property here. Funds will be available from a \$500,000 bond issue recently voted, and of the amount appropriated, \$40,000 has been expended for equipment and \$12,000 for the purchase of the Bowie wharves.

The budget provides for an extension of 1500 lineal feet of wharfage, construction of which is in progress. Additional terminal facilities will include a \$44,000 warehouse, railroad tracks, electric conduits, water lines and roadways.

Will Receive Bids on \$250,000 Y. M. C. A. Building.

Fort Worth, Tex., August 17—[Special.]—Bids will be opened on September 4 by the Young Men's Christian Association for the erection of its proposed \$250,000 building here. The structure will be 100 by 143 feet, of brick and concrete. W. G. Clarkson & Co. of Fort Worth are the architects.

THE IRON AND STEEL SITUATION

No Change in Steel Situation.

Pittsburgh, Pa., August 20.—[Special]—Steel production and shipments are much the same as formerly, no material change being observable in the past week or two. This means that steel ingot production is at between 42,000,000 and 44,000,000 tons a year, probably nearer the latter figure, or between 10 and 15 per cent under the peak rate of four months ago and between 5 and 10 per cent above the highest rate of last year.

While the amount of 12-hour work at blast furnaces and steel mills has been decreasing for many years, for there was a time when nearly all workmen in the iron and steel industry were on duty 12 hours a day, the complete elimination of the 12-hour day was promised to President Harding shortly before his death. The actual elimination is now begun. Monday of last week the Illinois Steel Company and Inland Steel Company, both in the Chicago district, made the change in a few of their departments, substituting three shifts for two, while last Thursday the Carnegie Steel Company suddenly eliminated most of the 12-hour day at its plants in the Pittsburgh district. It will probably be several months before the change has been completed at all iron and steel plants.

While salesmen have used the higher cost of steel making and the possible reduction in output as talking points, the fact seems to be that furnaces and mills are making the change only as the additional workmen are found, so that no output really needed will be lost. As to the added cost, the early estimates of \$3 to \$4 a ton or more are now admitted in some quarters to have been too high, unless wage advances have to be made to nine and ten hour men to harmonize with the increased hourly rate paid on the jobs that are being shortened from 12 to 8 hours, the new pay being \$4 for 8 hours, or 50 cents an hour, against the former pay of \$4.80, or 40 cents an hour for 12 hours.

It remains the case that although buyers of steel have been in very conservative mood for fully three months there are no cancellations of orders or instructions to defer shipment, that amount to anything. The condition indicates two things, that buyers were conservative in entering into obligations for this quarter, not overbuying as possibly they did, and certainly as they wanted to for second quarter, and that many of the mills now have rather lean order books. As usual, the Steel Corporation in accordance with its general policy is sold much farther ahead than the independents.

The strength of the steel market, however, does not depend directly on how far ahead the mills are sold or the buyers are covered, since cancellations are possible. The chief point is that when mills are sold far ahead they have little incentive to cut, particularly as price cutting would jeopardize the business they already have. Up to date finished steel prices have been maintained, but a test will come in September, when much new business will be out for placement, one factor being that there will be many fourth quarter contracts to place if terms can be agreed upon.

Steel prices are: Bars, 2.40c; shapes and plates, 2.50c; merchant pipe, 62 per cent basing discount; blue annealed sheets, 3.00c; black sheets, 3.85c; galvanized sheets, 5.00c; plain wire, 2.75c; wire nails, \$3.00; tin plate, \$5.50. On all these products early deliveries can be secured, excepting tin plate, on which mills are sold up through the quarter. They will probably open order books for fourth quarter in the first week in September.

Operations at pipe mills have been increasing in the past four or six weeks and are now close to capacity. For a time there was a severe restriction from labor shortage in

finishing departments, particularly in cutting and threading. Shipments of oil country goods have been decreasing, but this is made up by heavier shipments of merchant pipe, required on account of the building boom, and the pipe mills are still under pressure, with considerable business still on books.

After recovering from its little slump, as reported a week ago, Connellsville coke has stiffened a trifle more, and it appears that production and consumption are in balance again. In July many furnaces were going out, but there is little of that now. Furnace coke, \$4.50 a week ago, has sold in some cases at \$4.60, and \$4.75 is the asking price of several operators. Foundry coke, formerly \$5.25 to \$5.50, has gone at \$5.75 in several cases, when the consumer wanted a favorite brand.

Pig iron now appears plainly to be stationary, as despite two or three recent sales by speculators at \$24 or \$24.50, a sale of 2000 tons has just gone through at \$25, which has been the furnace asking price right along. It was in the first few days of July that basic iron declined to \$25 and for it to bring the same price six weeks later means something. Bessemer remains at \$26.50 and foundry at \$25 to \$26, all prices being valleys or Johnstown, with \$1.77 freight to Pittsburgh.

Three weeks ago the iron and steel scrap market began to show a better tone, after four months of practically continuous declines. Prices are fully as high as a fortnight ago, and are somewhat firmer. Demand at the moment is light, but large lots could not be bought at current prices, and there are now not a few in the trade who expect slightly higher prices within a few weeks.

Dullness in Southern Pig Iron Market.

Birmingham, Ala., August 20.—[Special]—The Southern pig iron market has continued for several weeks now lifeless, almost, so far as sales are concerned, but to the reverse, so far as production and delivery are concerned. There is some iron going to the furnace yards, accumulating, so to speak, and the aggregate is getting over the 100,000 ton mark in good fashion. The small furnace interest which has been selling some iron for delivery during the remainder of the third quarter of the year and into the fourth quarter at \$24 and \$25 per ton, No. 2 foundry, is practically out of the market, having sold well ahead. The larger and more active furnace interests of this district have been maintaining the \$27 per ton price for iron. All sales recently have been in small lots, one, two and three car lots at the time. The aggregate new business has not yet been anything around the production totals. Several melters of iron instructed delays in deliveries on their orders which were placed some weeks and months since and this, it is claimed, is the iron that is going to the yards. But, the fact remains, there is more iron being produced than is being shipped and melted.

The activity in melting is still with the pressure pipe, radiator and stove manufacturers and the indications are these interests will continue capacity production for several months yet. Pressure pipe people receive a few lettings each week and these add nicely to the business on hand. Within another two weeks the usual dull season of the sanitary and pressure pipe industry will be at an end and it will then be seen if there is any new business. The pressure pipe makers feel confident they are going to get additional business to warrant their continuing steady operations through the coming winter. The National Cast Iron Pipe Company will soon be ready to operate their new addition which is equipped with the DeLavaud machines for pipe making, the centrifugal pipe reduction. The United States Cast Iron Pipe and

Foundry Company will soon be in position to increase its output of this class of pipe also. The radiator and stove works apparently have a strong demand to meet. The steady operations at these plants attract attention.

The 12-hour day elimination in the Birmingham district has not yet been started on. The labor situation here is far from being as easy as it might be, though sanitary pipe plants are down and the labor there waiting for resumption of operations. In some plants labor is reported as being opposed to any reduction in earnings. At one place the hours are being cut down by alternate weeks bringing the number of hours to 9 and 10 and the following week to 14 and 15, so that there will not be so much pay cut off, in such industries that have at present two shifts to the 24.

The shortage of labor is felt a little in ore mines and at blast furnaces and for this reason the Birmingham district is a little slow in placing in operation the eight-hour day.

A little improvement is noted in the coal mining industry in the Alabama field and before the end of the month it is believed there will be warrant for resumption on full time at many places. Some of the larger mining propositions in this state have lost no time this year except those incident to the industry at times. The independent coal companies have been complaining recently at the lagging steam coal demand but improvement is noted and belief is held that in the next few weeks there will be an activity that will keep all the labor here at work.

The coke market is lagging some but the quotations for the product are showing renewed strength, \$8 and \$8.50 per ton, for foundry coke being given as prevailing prices. There has been no curtailment in production in this district and none intended for the near future. There is a little shortage of labor in this industry.

The scrap iron and steel market continues lifeless and were it not for the fact that there is still some old business on the books there would be no movements at all. The sales recently are practically nothing, some of the foundries buying a little to cover needs in sight. Quotations for old material are very weak, the list that is given being nominal figures.

Transportation facilities in the Birmingham district are all that could be asked for, the railroads now giving the best service in years. The car shortage in the coal mining industry is being worked down and the complaint that was heard three weeks ago is being slowly but surely eradicated. Considerable coal is still moving down the Warrior river to Mobile, but the railroads are getting a large percentage of the coal traffic of this state. A considerable amount of fuel is going to Pensacola by rail for shipping, bunkering and export purposes.

The Connors Steel Company will have their No. 1 plant back in operation by September 1, it is believed, using machinery that is being brought here from the old plant being razed at Helena, Ala. The old plant here was almost totally destroyed by fire a few months ago. The Connors Company has good business on books for bands, hoops and cotton ties and shipments from the new plant are as healthy as possible. The fire came at a most inopportune time.

Pig iron and iron and steel scrap quotations follow:

PIG IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$24.00 to \$25.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$24.50 to \$25.50; iron of 2.75 to 3.25 per cent silicon, \$25.00 to \$26.00; iron of 3.25 to 3.75 per cent silicon, \$25.50 to \$26.50; iron of 3.75 to 4.25 per cent silicon, \$26.00 to \$27.00; charcoal iron, f. o. b. furnaces, \$33.00 to \$34.00.

OLD MATERIAL.

Old steel axles	\$20.00	to	\$21.00
Old iron axles	24.00	to	25.00
Old steel rails	17.00	to	17.50
Heavy melting steel	15.00	to	15.50
No. 1 R. R. wrought	14.50	to	15.00
No. 1 cast	19.00	to	20.00
Stove plate	15.00	to	16.00
Old car wheels	18.00	to	18.50
Old tramcar wheels	18.50	to	19.00
Machine shop turnings	8.00	to	9.00
Cast iron borings	9.00	to	10.00
Cast iron borings (Chem.)	16.50	to	17.00

RAILROADS

ILLINOIS CENTRAL CUTOFF APPROVED.

**\$17,000,000 Construction Plan to Begin Promptly—
Also Over \$4,000,000 to Be Spent at Memphis.**

Construction of the new cutoff line of the Illinois Central Railroad from Edgewood, Ill., to Fulton, Ky., 166 miles, is to begin promptly, according to C. M. Kittle, senior vice-president of the company at Chicago, approval of the plans having been given by the Interstate Commerce Commission last week.

There was considerable opposition to the cutoff by Illinois interests which feared that traffic on the main line would be greatly reduced by diversions, but it is stated that the present double track main line is a high class road in a high state of maintenance and there is no idea of abandoning it or detracting from its efficiency in any way. It will still be the main line for the most of the traffic and the new construction plans do not contemplate any removal of terminal headquarters, neither is it proposed to transfer any of the shops.

Furthermore, the following official statement explains why the cutoff will be built instead of constructing a third track on the old main line:

"The traffic demanded a new track. We had a choice between a third track on the present route and new line from Edgewood. A third track would cost \$24,000,000; the new line \$17,000,000. One would open up new territory and new gateway, reduce mileage on coal hauls from the southern Illinois fields and add to our facilities in Kentucky; the other would do none of these things. Quite naturally our officers and engineers elected the new line, and we are confident that the future will confirm the judgment."

It may be further stated that the greater cost of construction of a third track on the route of the main line would be due to the hilly character of the country through which it runs. This is all avoided by the new route. Besides, the new line will shorten the haul on through business 22 miles.

In consequence of approval having been given to this new railroad project the Illinois Central Railroad will now proceed with a proposed expenditure of from \$4,000,000 to \$5,000,000 to enlarge its terminals, shops and yards at Memphis, Tenn.

Trains running via the new route will cross the Ohio River on the bridge at Metropolis, Ill., not far from Paducah, Ky.

B. & O. to Build Big Terminal and Yard.

The Baltimore & Ohio Railroad Co. has bought about 230 acres of land on its main line immediately east of East St. Louis, Ill., and will spend there from \$1,000,000 to \$2,000,000 for the establishment of a large engine terminal and a classification, interchange and dispatch yard. Plans are not yet worked out but they are to be on a big scale and will meet traffic conditions for many years. The new terminal and yard will relieve congestion at East St. Louis, through which point traffic on the Baltimore & Ohio lines and other railroads enters St. Louis, Mo., and the lessening of this congestion has become imperative. The result of these projected improvements will be faster and better handling of traffic in and out of St. Louis, and their beneficial effects upon transportation will be felt from there all the way eastward.

A Short Line Goes to the Frisco.

The Miami Mineral Belt Line, 13½ miles long from Quapaw, Okla., to zinc mines, will it is announced, be acquired by the St. Louis-San Francisco Railroad Co. The main line is 11 miles long and there is a branch of 3 miles. It was built six years ago.

Itawamba County to Get Its First Railroad.

The Mississippian Railway is the name of a new railroad projected from a connection with the Frisco System at Amory, to Fulton, Miss., about 25 miles, the incorporators being John T. Cochrane, Jr., of Amory, and P. C. Byrne, of Pine Hill, Ala., besides John T. Cochrane, of Mobile, president of the Alabama, Tennessee & Northern Railway, who is also president of the new railroad company, that according to reports from the region to be traversed, is to be built immediately. Mr. Byrne is vice-president, John T. Cochrane, Jr., treasurer and Wm. Toxey, of Mobile, chief engineer. Construction preliminaries are already under way.

The line will run in a northerly direction from Amory up the valley of the Tombigbee River and will traverse a country rich in both pine and hardwood timber as well as in great agricultural resources. There is no railroad at present in Itawamba County of which Fulton is the county seat and this road will provide transportation facilities that have long been desired. It is expected to be completed within two years. There are many sawmills already at work in the county and their product is now hauled out by trucks, but there is a vast body of hardwood timber in the river bottom lands that has, it is said, never been cut into and this will now be developed. As to farming, there is some cotton raised in the county but at present it has to be hauled from 20 to 40 miles to a railroad.

Electric Railway Planned Through Rich Country.

Leroy Park, Agent, Carolina, Greenville & Northern Railroad Co., Greenville, Tenn., writes the MANUFACTURERS RECORD about the company's proposed railroad as follows:

"The line as located extends from a connection with the Norfolk & Western Railway at Bristol, Tenn., via Kingsport, Newport, Dandridge, and the Knoxville & Carolina Railroad to a connection with the Louisville & Nashville Railroad at Knoxville, Tenn. Plans are made to operate over the Knoxville & Carolina Railroad for the last 25 miles into Knoxville. The line has 1.5 per cent maximum grade and 10 degrees maximum curve. Construction work is light on the section between Kingsport and Newport and heavy on the remaining sections. One hundred pound rails will be used on account of much mineral tonnage developing and also on account of through business from connections. New line to be constructed is 115 miles through well settled and highly developed agricultural country, rich in minerals and timber for full length of the line. Hydro-electric power for operation will be from a plant on a stream midway of the line."

New Equipment.

Missouri Pacific Railway has ordered passenger train equipment from the American Car & Foundry Co. as follows: 18 passenger cars, 12 chair cars, and 10 baggage cars, and from the Pullman Company 8 dining cars, 9 divided cars and 3 cafe club cars.

Tennessee, Alabama & Georgia Railroad has ordered 30 steel underframe gondola cars of 40 tons capacity, from the General Equipment Co., of New York.

Richmond, Fredericksburg & Potomac Railroad is reported in the market for 4 locomotives, 2 of Pacific type and 2 of Mountain type.

Railroad Extension in Florida.

An extension of 13 miles is to be made to the Tampa Southern Railroad from Bradentown to Sarasota, Fla., contract for the grading, culverts and bridges having been let to Cook & Co., of Bradentown, and the extension is to be completed by January 1 next. The work is under the supervision of the engineering department of the Atlantic Coast Line of which system the Tampa Southern is a connection.

ARANSAS PASS IMPROVEMENTS.

Regular Steamship Service Established for Cotton Cargoes to Europe.

The San Antonio & Aransas Pass Railway Co., reports that arrangements have been made for regular steamship service to carry cotton from Port Aransas, Tex., to Mediterranean and Baltic seaports and also to British and French ports. The Harrison Line steamer Comedian was the first sailing announced—August 20—and the Aransas Pass Channel & Dock Co. says that two weeks before sailing three-fourths of the ship's capacity was booked.

The dredgeboat Aransas, from Galveston, has begun work on the port developments at Aransas Pass. This project provides for about 13,000 feet of seawall along the bay front of the town and in completing this a channel will be dredged of the same length, 7 feet deep and from 130 to 175 feet wide. When this is finished the dredge will be used in building a road through the shallow water from Aransas Pass to Ransom's Island, which will be made a resort.

Proposed Connecting Line in Texas.

A new railroad company named Rio Grande City & Northern has been chartered in Texas to build a line about 85 miles long from Sam Fordyce in Hidalgo County to Rio Grande City in Starr County and thence to a connection with the Texas Mexican Railway in Webb County. Sam Fordyce is on the St. Louis, Brownsville & Mexican Railway System or Gulf Coast Lines, and Rio Grande City is about 20 miles northwest, up the valley of the Rio Grande. The rest of the proposed line will also follow a northwesterly direction to make the connection with the Texas Mexican line.

The capital stock of the new company is \$440,000 and the board of directors includes H. Williams, R. A. Abernathy, E. B. Williams and A. G. Fullerton, all of Dallas, Tex.; S. C. Scott, J. M. Gay and J. W. Wilson, of McKinney, Tex.; C. J. Starnes and A. J. Farmer, of Forney, Tex., and D. W. Harrell, of Sherman, Tex.

Mendota, Va. to Kingsport, Tenn.

The Laurel Fork & Mendota Railroad Co. has applied to the Interstate Commerce Commission for authority to build a railroad from Mendota, Va., on the north fork of the Holston River to Kingsport, Tenn., about 15 miles. It is understood, according to a report from Washington announcing the application for construction, that the proposed road will be a branch of the Southern Railway, Mendota being on the Appalachia division of that system and not far from Bristol, Va.-Tenn. The projected line would connect at Kingsport with the Carolina, Clinchfield & Ohio Railway, but it is intimated that it may be extended to make a short line from Kingsport to Knoxville. John M. Kreger, of Abingdon, Va., is president.

Barges from St. Louis to St. Paul.

Freight traffic on the upper part of the Mississippi River is to begin by September 1 from St. Louis, Mo., to St. Paul, Minn., according to a report from Moline, Ill., which says that the River Transit Co. of St. Paul, has announced that it will operate four new motor barges of 100 tons capacity between the two cities, a distance of nearly 700 miles. They will make numerous landings en route.

Contract for Coal Spur.

The Pond Creek Pocahontas Co., of Huntington, according to a report from Bluefield, W. Va., has awarded to H. M. Waugh of that place, a contract to build railroad track for their coal developments at Bartley on the Norfolk & Western Railway.

GOOD ROADS AND STREETS

Tennessee Lets Contracts for Roads and Bridges to Cost Over \$826,000—Road Mileage Totals Nearly 500.

Nashville, Tenn.—Contracts for the construction of more than 49 miles of roads and for a number of bridges have been awarded by the state highway commission here, the total cost being \$826,405. The work includes the following: Building 7.99 miles of chert surfaced highway in Benton County, Little & Dean of Memphis, contractors at \$154,570; 11.02 miles of bituminous macadam in Bedford County, Boyd Williams of Murfreesboro, Tenn., contractor at \$222,257; 7.53 miles of chert surfaced highway in Lewis County, C. & G. Construction Co., Hohenwald, Tenn., at \$57,161; 10.78 miles of rock asphalt surfaced road in Sumner County, Rhodes-Carr Co., Nashville, at \$162,074, and for building 12.5 miles of gravel surfaced road in the same county, S. W. Brown Sons Co., Westmoreland, Tenn., received contract at \$111,149.

For building a concrete bridge over Drake Creek in Sumner County, contract was awarded to the Clayton Paving Co. of Nashville at \$18,624, and to the same company at \$27,001 for building a concrete bridge over Stone River in Rutherford County; bridges over 20 feet of span on project No. 94, Little & Dean, contractors at \$13,496, and for bridges over 20 feet of span on project No. 96, the Luten Bridge Co. of Knoxville, was awarded contract at \$22,809. F. H. Crow & Co. of Nashville received contract at \$37,244 for building two bridges and two culverts in Hickman County.

Volusia County Awards Road Contracts.

New Smyrna, Fla.—The board of county commissioners of Volusia County has awarded contracts for the construction of roads in Turnbull district (New Smyrna) totaling \$360,000. James Y. Wilson of Jacksonville was awarded contract for culverts, bridges and rock base for the roads, and George Abbott of New Smyrna for laying coquina rock compacted on top of the present shell.

Of a bond issue of \$600,000 which was sold for \$576,000. It is stated that \$220,000 of the amount was pledged to the state highway department to take over, build and maintain a road from Rose Bay to the Brevard County line. It is understood that the engineers of the state highway department have made a survey for this road and will open construction bids in September. A new bridge will also be constructed here from Lytle avenue to the peninsula.

To Vote on \$650,000 Road Bonds—Will Build 112 Miles of Limestone Highways.

Claremore, Okla.—A special election for September 8 on a bond issue of \$650,000 for building 112 miles of limestone highways in Rogers County, has been called by the board of county commissioners. One of the most important roads planned will connect with the paved road to the Tulsa County line near Catoosa and extend northeast across the county, touching Claremore and Chelsea. Another will extend from Collinsville directly east through the county to the Mayes County line, while a third is to parallel the Iron Mountain Railroad north and south through the county.

In the event the proposed bond issue is voted, it is stated that the county will receive \$100,000 annually from federal aid funds.

Travis County to Build 8 Miles of Road.

Austin, Tex.—Bids will be received until September 11 by George S. Matthews, Judge of Travis County, at his office in this city, to build the Fredericksburg road from a point near

Oak Hill to the Hays County line, a distance of 7.92 miles. The work consists of grading and constructing necessary concrete structures. Detailed plans and specifications may be seen at the office of the State Highway Department.

Bids Wanted on Road in Choctaw County.

Montgomery, Ala.—Sealed bids will be received by the State Highway Commission at its office here until September 18 for the construction of 7.756 miles of road in Choctaw County, a part of the Butler-Meridian road. Plans and specifications are on file at the office of the State Highway Commission and at the office of the division engineer at Selma. W. S. Keller is the state highway engineer.

Whitfield County Will Build 17 Bridges.

Dalton, Ga.—The construction of 17 reinforced concrete and steel bridges in this county has been authorized by the Whitfield County Commissioners here. Contracts for two of the largest have already been awarded, while the remaining fifteen, most of which are small, will be built by the county convict gang. All work will be done this year.

Notes on Good Roads Construction.

The commissioners of Canadian County, Oklahoma, have adopted a tentative budget which calls for an expenditure of \$187,642 in 1924 on roads and bridges in the county.

The State Road Department of Florida, with offices in Tallahassee, has awarded contract to Noll & Noll, Melbourne, Fla. to build 15 miles of state aid road from Melbourne west.

The State Highway Department of Mississippi has awarded a contract at \$99,950 to Clark & Junkin of Vicksburg, Miss. to build 7.8 miles of gravel road in Claiborne County between Port Gibson and Vicksburg.

The city of Fort Worth and Tarrant County, Texas, will build Polytechnic Pike from Sycamore Creek to Conner avenue, the city to lay the base, either of crushed rock or concrete, and the county to put on the top of amiesite or rock asphalt.

The Orange County Commissioners Court, Orange, Tex., will receive bids until September 10 to dredge, grade, surface and build timber structures on the Orange-Port Arthur road and for wrecking a steel bridge across Adams Bayou and hauling it to a new site.

Bids Soon on \$1,250,000 Lowenstein Store Building to Be Erected at Memphis.

Memphis, Tenn.—Preliminary sketches have been approved, and working drawings will be completed and distributed to contractors for bids about September 1, for the proposed \$1,250,000 store building to be erected here by the Snowden interests for B. Lowenstein & Bros., Inc. The building will occupy a site, 148.6 by 148.6 feet, where the Peabody Hotel now stands at Monroe avenue and Main street, with an annex facing 50 feet on Front street and extending back 148.6 feet, and connected with the main building by a bridge and subway. The main building will be 8 stories and it is probable that the annex will be the same height.

Reinforced concrete construction will be used with ornamental terra cotta finish and large plate glass show windows on the grade floor. On the corner the windows will be rounded and above the first floor the corners will be truncated. There will be three public entrances to the store and automobile service will be handled on the front street side. Eight elevators will be installed. Harker & Cairns of Memphis and Emile Weil of New Orleans are associate architects.

TEXTILE

\$1,000,000 FOR PLANT ENLARGEMENTS.

Miller Interests Buy Wardlaw Hosiery Mills and Will Make Extensive Improvements.

The purchase of the Wardlaw Hosiery Mills at Chattanooga by Felix Miller and George Blackwell Smith has been announced, with information that the new owners will expend \$1,000,000 for making enlargements and improvements to the plant. The deal not only includes the present hosiery mills and equipment, but also the building occupied by the Atlas Box Co. and the entire block of adjoining property extending from McCallie avenue to Duncan and from the Belt railroad tracks to Holtzclaw avenue. Regarding the purchase, the Wardlaw Hosiery Mills and Mr. Miller wire the MANUFACTURERS RECORD:

"Felix Miller and associates have purchased the Wardlaw Hosiery Mills and adjacent property, holding now one square block: \$1,000,000 will be expended for improvements in the near future; George Blackwell Smith, president; Felix Miller, vice president; it is understood that G. H. Miller, formerly president of the Buster Brown Hosiery Mills, is heavily interested; it is contemplated that improvements will start immediately; H. A. Wingers will continue as general manager."

The new company will be known as the Miller-Smith Hosiery Mills and tentative plans for the proposed plant improvements include the construction of a 6-story uniform structure, four stories to be erected on top of the present two-story building occupied by the Wardlaw Mills, and all other buildings to be six stories. Construction will be fire-proof and similar in design to the present buildings.

At present only children's hosiery is produced, but machinery has been ordered for the production of men's and women's hosiery as well. The plant when completed will have a total floor space of 400,000 square feet. Its present capacity is 500 dozen pairs of hose per day, which will be increased to 1200 dozen pairs.

Jefferson Cotton Mills Organize With \$500,000 Capital Stock—To Manufacture Wide Seetings.

Pine Bluff, Ark.—Articles of incorporation of the Jefferson Cotton Mills Co., capitalized at \$500,000, have been filed here with the county clerk. The company plans to take over the old packing plant east of the city and install machinery for the production of wide sheeting.

Temporary officers include D. B. Niven, president, and A. J. Robinson, secretary-treasurer. J. E. Boyce and J. W. Wilkins, with the officers, are directors of the company.

Will Manufacture Shoe Laces.

Hickory, N. C.—A plant for the manufacture of shoe laces is expected to be in operation here within sixty days according to plans of the Hickory Lace Braiding Co., which has recently incorporated with the following officers: J. M. Allred, president; Walker Lyerly, vice-president, and W. Norwood Bass, secretary, treasurer and manager.

Several locations are being considered for the plant which will produce at the start 200 gross of laces per day.

Promoting Cotton Mill for Navasota.

Navasota, Tex.—The Chamber of Commerce, with bankers and other business men, are promoting the establishment of a cotton mill here. In connection with the enterprise, John H. Stewart of Navasota is inspecting mills in the Piedmont section of the Carolinas to ascertain the kind of mill and meth-

ods of manufacture which may best be adapted to Texas conditions.

Navasota is situated 70 miles north of Houston on the Brazos River, in the midst of one of the rich farming regions of the State. It has a population of 5000. Upon Mr. Stewart's return, it is said, the new cotton mill plan will be pushed.

Statement of President Smyth to Stockholders of Pelzer Manufacturing Co. on the Sale of Cotton Mill Properties.

With reference to the recent \$9,000,000 sale of the properties of the Pelzer Manufacturing Co. of Pelzer, S. C., to Lockwood, Greene & Co. of Boston, the properties including four cotton mills with a total of 136,000 spindles, President Ellison A. Smyth of the Pelzer Manufacturing Co., has written the stockholders as follows:

"The majority of the stock of the Pelzer Manufacturing Company controlled by my associates and myself has been sold through Messrs. A. M. Law & Co., of Spartanburg, to Messrs. Lockwood, Greene & Co., of Boston, and the opportunity is given to every other stockholder to sell his stock to Messrs. Lockwood, Greene & Co. on exactly the same terms and conditions as were paid to the majority stockholders. No fee or commission has been paid or will be accepted in this transaction.

"The terms of the sale are as follows: The property to be turned over to the control of Messrs. Lockwood, Greene & Co. on September 1, 1923, or as soon thereafter as possible, on payment by them of 25 per cent of the purchase price, which is \$300 per share. The remaining 75 per cent bearing interest at 6 per cent to be paid on or before December 20, 1923. Certificates of stock will be lodged in the Hanover National Bank, New York, and on payment in full will be delivered to Messrs. Lockwood, Greene & Co. All the assets of the Company are to be turned over to Messrs. Lockwood, Greene & Co. and they assume all liabilities for Federal and other taxes.

"It will be necessary for you to send to me at once your certificates of stock duly signed and witnessed, with the revenue stamps required by the United States Government and the State of South Carolina attached, and I will deposit same with the Hanover National Bank subject to the above agreement. If, however, any stockholder prefers to accept another proposition made by Messrs. Lockwood, Greene & Co. they will receive 25 per cent in cash on or soon after September 1, 1923, and obligations of the purchaser to pay the remainder in four annual payments bearing interest at 7 per cent payable semi-annually, all stock to be lodged with the Hanover National Bank, and the payments to be made through them to the original holder of the stock, and when the final payments are made the stock will be delivered to Messrs. Lockwood, Greene & Co.

"The Pelzer Manufacturing Company was chartered in December, 1880 and on February 4, 1881 was organized in Charleston with capital of \$400,000, which was over-subscribed. I was elected President and Treasurer of the Company at that meeting and have held that position without interruption to the present time. In 1888 the capital was increased to \$600,000 and in 1899 to \$1,000,000, the last increase of \$400,000 being placed with the stockholders at \$125 per share, making a total investment on the part of the stockholders of \$1,100,000. Cash dividends have been paid to the stockholders amounting to \$3,811,987.50 and also a stock dividend of \$2,000,000 and the property is now sold for \$9,000,000 and which I trust will be satisfactory to all the stockholders.

"The success of the Pelzer Company has been due largely to the cordial support always extended to me by your Board of Directors, and also to the loyal help and assistance given to me by the officers of the Company and the whole corps of employees. There are no better people, taken as a whole, in the world than the employees of the Pelzer Manufacturing Company. During the forty odd years the Pelzer Mills have been in operation there has never been any running on short time or curtailment of operation due to the depressed condition of the goods market, or the necessity of piling up goods in warehouses waiting for a market. The obligation has been felt that having invited people to move to the Pelzer village employment should be given, regardless of whether the continued operation of the mills was to the best interest of the corporation or not. This fact has been appreciated by our employees and no labor troubles have ever occurred at Pelzer."

Georgia Contracts for 100,000,000 Pounds Calcium Arsenate—Plant With Annual Capacity of 50,000,000 Pounds to Be Built.

Atlanta, Ga., August 18—[Special.]—One hundred million pounds of calcium arsenate have been bought by the State Board of Entomology for use in Georgia in the next five years, at a price of ten cents a pound, according to a statement by J. J. Brown, commissioner of agriculture. Delivery will be made by the National Gold Arsenic Corporation, located in New York, from which the poison was purchased, at the rate of twenty million pounds a year.

The contract follows an investigation of the properties from which the new arsenic will be obtained by Ira W. Williams, state entomologist, and Henry Kennedy, vice-president of the Fulton National Bank, who, at the request of Governor Clifford Walker, made a trip to the state of Washington where the mines are located, and inspected the property.

A plant capable of producing 50,000,000 pounds of the insecticide a year will be erected by the National Gold Arsenic Corporation at some point in Georgia in the near future, according to L. P. Jubien, secretary of the company, and Georgia lime will be utilized in the manufacture of the product, lime composing about 60 per cent of the volume of calcium arsenate.

Under the new arrangement, according to Mr. Williams, 25,000,000 pounds of standard calcium arsenate will be available for use by Georgia farmers next year, nearly double the amount used on the present crop. He said:

"The average Georgia cotton crop, for nine years before the advent of the boll weevil, was 2,880,695 bales. Under boll weevil conditions, this has been reduced to less than 700,000 bales. At present prices, this means a loss to the state of \$187,500,000 a year.

"With the use of 50,000,000 pounds of calcium arsenate, this loss could be averted at a cost not to exceed \$5,000,000.

"Under the new system, however, we shall be manufacturing calcium arsenate and nothing else as the principle product, and will see to it that the calcium arsenate is supplied in good quantity, that it is of the highest quality, and that it is furnished farmers for the reasonable price of ten cents a pound."

The contract of the state department of entomology is the largest ever made in calcium arsenate, and enough of this valuable insecticide will be made and put on the market to meet the needs of Georgia's farmers and perhaps those of some of the neighboring cotton states.

American Cotton Crop Investigation by Secretary of International Federation.

Manchester, Eng., July 27.—[Special.]—Arno S. Pearse, the general secretary of the International Federation of Master Cotton Spinners' and Manufacturers' Associations, and Arthur Foster, the chairman of the North Lancashire Cotton Spinners' and Manufacturers' Association, are in America with a view to obtaining first hand information as to the growing cotton crop, the extent of the boll weevil damage, and the general trade conditions of the United States. Mr. Pearse, in a special report by cable to the International Federation, Manchester, states that the cotton industry in America both in the North and South, is working without margin of profit and at about 15 per cent reduction of production principally due to uncertainty of the cotton crop and prices during the coming season, the demand merely being held back. Says the report:

"The stocks of yarn cloth and cotton are small. Reliable sources consider that the American cotton industry will prosper again about the end of August and good general trade will continue until the end of the year. A general

set back is expected early in 1924, and business will be further upset next summer due to the Presidential elections. Nevertheless American cotton consumption is likely to be 6 3/4 million bales next season owing to 1,000,000 additional spindles being erected in the South."

With regard to the cotton crop Mr. Pearse states that New York is very bearish.

"All New York speaks of 13,000,000 bales, and more, but taking the average of information collected in New York, New England, Washington and Charlotte 11 1/2 million bales with a possibility of 12 million bales seems likely. Rains are wanted. I consider 4,500,000 bales the maximum for Texas. It is generally expected that Texas will sell half her crop at once regardless of price, which would deflate prices but a sharp rise is expected in the early Autumn. Next season's world consumption of American cotton will have to adapt itself to the size of the crop, as the carry over is reduced to a minimum. After careful investigation in the crop reporting section of the Department of Agriculture we are convinced, contrary to general views held, of the thorough efficiency of the present method adopted for the collection of information. Our next cable will be sent from Texas as everything depends on the crop in that state."

CONTRACT LET FOR \$1,000,000 DYEING AND FINISHING PLANT.

United States Finishing Company of New York to Build Mills at Cedartown for Bleaching and Dyeing.

Cedartown, Ga.—The United States Finishing Co. of New York, one of the largest firms operating dyeing and finishing plants in the country, has awarded contract to the Griffin-Hodges Construction Co. of Atlanta to build a dyeing and finishing plant at Cedartown, which will entail an expenditure in excess of \$1,000,000. The United States Finishing Co. is capitalized at upward of \$8,000,000 and operates a number of plants in New England, the total annual production being 350,000,000 yards of finished cotton piece goods.

The new plant at Cedartown is being built to handle the rapidly increasing textile industry in the South and this is the second large eastern finishing goods company to move a large part of its interests to Georgia, the other being the Lowell Bleachery of Lowell, Mass., which is now completing a large plant at Griffin, Ga. in connection with the Kincaid Manufacturing Co. at that place.

Construction will begin at once on the Cedartown plant and it is planned to have it in operation by the first of the year. It will be located at Blue Springs, the rights and some buildings of the old Blue Springs Company having been acquired. A number of the buildings will be remodeled and utilized in connection with the new plant and a water supply will be secured from the Blue Springs.

Aside from the natural advantages to be found at Cedartown, it is said that Charles Adamson, president of the Cedartown Cotton & Export Co., who has himself built a large textile industry, was instrumental in having the plant located here.

Robert & Co., Inc. of Atlanta, are the engineers for the construction of the mills, and Paul A. Merriam of Providence, R. I. will be in charge of operations.

Contracts for Alexander City Cotton Mills.

Alexander City, Ala., August 18—[Special.]—Contracts have been awarded by J. E. Serrine & Co., engineers, Greenville, S. C., to the Parks-Cramer Co. of Charlotte, N. C. for a humidifier system for the Alexander City Cotton Mills here. The Grinnell Co. of Providence, R. I., has been awarded contract for heating and sprinkler system, and the Park Manufacturing Co. of Charlotte for elevators.

LUMBER AND BUILDING MATERIALS

Decline in Lumber Movement.

Washington, Aug. 16.—The nation's lumber movement declined noticeably last week says the National Lumber Manufacturers Association, as reflected by reports from 382 of the larger commercial sawmills as compared with reports from 406 mills for the preceding week. Shipments fell off about 15 per cent, new business about 10 per cent, and production about 7 per cent. With 122 mills reporting as against 131 for the week before unfilled orders of West Coast mills decreased from 320,039,832 feet to 305,893,356 feet; and 132 Southern Pine Association mills show a decline in the order file from 228,868,185 feet to 218,769,525 feet.

For all the reporting mills shipments were 82 per cent and orders 78 per cent of actual production; for the Southern pine mills these percentages were 95 and 81, and for the West Coast mills 85 and 98. Of the whole number of reporting mills 343 have an established normal production for the week, in reference to which actual production was 102 per cent, shipments 88 per cent, and orders 85 per cent.

The following table compares the lumber movement for the three designated weeks:

	Past Week	Corresponding Week 1922	Preceding Week 1923 (Revised)
Mills	382	379	406
Production	253,537,026	236,660,459	272,405,029
Shipments	208,997,085	198,468,615	240,865,615
Orders	198,969,650	229,568,733	221,721,680

For the first 32 weeks of 1923 and the corresponding weeks of 1922 the lumber movement of reporting mills was as follows:

	Production	Shipments	Orders
1923	7,979,942,383	8,034,111,720	7,984,516,414
1922	6,586,587,925	6,614,327,334	7,010,301,659
1923 Increase ...	1,393,354,458	1,419,784,486	974,214,755

The North Carolina Pine Association reports from Norfolk, Va., that production still lags because of labor shortage and that though orders dropped off perceptibly during the week the decline is in line with seasonable conditions.

The Southern Pine Association reports a slight decrease in new business and still slighter decrease in production and shipments as compared with the preceding week. Of 78 mills giving their running time, 50 were on full time and 9 were running over-time, including two on double shift.

The West Coast Lumber Manufacturers Association wires from Seattle, that production for the week was 14 per cent above normal, new business 2 per cent below production and shipments 13 per cent below new business. Of the orders taken during the week, 39 per cent was for future water delivery amounting to 36,441,757 feet, of which 22,584,723 was for domestic cargo delivery and 13,857,034 export. New business by rail amounted to 1745 cars. Of the week's lumber shipments 31 per cent moved by water, amounting to 25,144,130 feet, of which 17,520,884 moved coastwise and inter-coastal, and 7,623,246 overseas. Rail shipments totaled 1712 cars and local deliveries amounted to 3,676,066 feet. Unfilled domestic cargo orders total 119,465,295 feet, and unfilled export orders 73,208,061 feet, unfilled rail trade orders amounting to 5661 cars.

The California White and Sugar Pine Manufacturers Association wires from San Francisco that all the factors of production and marketing are normal.

North Carolina Pine Report.

The North Carolina Pine Association reports as follows on 38 mills for the week ending August 11:

	Total Feet
Orders	4,422,352
Shipments	6,862,140
Production	8,145,257
Normal Production	10,572,000

The orders were 35 per cent below shipments, 45 per cent below actual production and 58 per cent below normal production. Shipments were 15 per cent below actual production and 35 per cent below normal production. Actual production was 23 per cent below normal. The week shows a decrease in orders of 2,861,612 feet or 39 per cent.

Rapid Progress on Cummer Cypress Mill.

Lacoochee, Fla.—Rapid progress is being made on the big cypress mill being erected here by the Cummer Cypress Co., a subsidiary of the Cummer Lumber Co. of Jacksonville. The mill will saw only cypress lumber and will have a daily capacity of 100,000 feet. It will be equipped with modern devices, including a crane with a lifting capacity of 12 tons and boom about 75 feet long. The plant will be electrically

LUMBER MOVEMENT FOR THIRTY-TWO WEEKS, AND FOR THE WEEK ENDING AUGUST 11.

	Production		Shipments		Orders	
	1923	1922	1923	1922	1923	1922
Southern Pine Association:						
Total	2,453,241,544	2,306,522,285	2,532,675,791	2,319,842,320	2,374,816,870	2,487,357,391
Week (132 mills)	75,132,190	78,969,173	71,003,595	67,685,436	60,904,935	93,408,381
West Coast Lumbermen's Ass'n:						
Total	3,140,674,404	2,574,256,014	3,388,962,771	2,545,039,126	3,214,942,181	2,575,944,156
Week (122 mills)	94,033,712	86,814,066	80,180,736	71,726,686	92,468,363	75,462,783
Western Pine Mfrs. Association:						
Total	888,275,000	671,368,000	816,535,000	793,252,000	753,550,000	822,650,000
Week (36 mills)	33,936,000	32,239,000	20,672,000	26,434,000	17,625,000	25,775,000
Calif. White & Sugar Pine Mfrs.:						
Total	519,647,000	195,206,000	360,631,000	163,921,000	816,636,000	321,280,000
Week (16 mills)	17,484,000	8,975,000	10,479,000	5,900,000	7,922,000	2,430,000
Calif. Redwood Association:						
Total	283,137,000	235,238,000	291,839,000	214,764,000	286,920,000	228,349,000
Week (15 mills)	8,465,000	9,021,000	9,847,000	5,685,000	6,683,000	10,397,000
North Carolina Pine Association:						
Total	281,388,713	267,305,251	299,516,586	255,022,253	232,829,463	261,589,112
Week (38 mills)	7,099,002	7,847,037	7,341,782	7,829,518	4,192,352	7,973,569
Northern Hemlock & Hardwood:						
(Softwood) Total	81,355,000	63,627,000	82,181,000	86,053,000	74,316,000	83,075,000
Week (13 mills)	1,608,000	1,421,000	1,190,000	2,277,000	1,141,000	3,090,000
Northern Pine Mfrs. Association:						
Total	332,223,722	273,065,375	261,770,572	236,433,535	230,505,900	230,057,000
Week (11 mills)	14,576,122	11,374,183	6,497,972	10,930,975	7,156,000	11,032,000
General Total for 32 weeks						
(Softwood)	7,979,942,383	6,586,587,925	8,034,111,720	6,614,327,234	7,984,516,414	7,010,301,659
Northern Hemlock & Hardwood:						
(Hardwood) 32 weeks	97,482,000		94,650,000		86,902,000	
General Total for Week	253,537,026	236,660,459	208,997,085	198,468,615	198,969,650	229,568,733

driven, the power being furnished by two dynamos, one having a capacity of 750 kilowatts and the other of 600. The dynamos will be operated by steam turbines, steam being generated by two large upright boilers of unusual construction.

Contract for 100,000,000 Feet of Gum—Ten Years Required to Fill \$2,500,000 Order.

Beaumont, Tex., August 18—[Special.]—A hardwood contract regarded in local lumber circles as one of the largest in the history of the industry, was recently negotiated between the Texas Lumber Co. and the Neches Lumber Co. The contract calls for the delivery of 100 million feet of tupelo gum to the Texas Company box factory, Port Arthur plant. Ten years will be required in filling the order. The deal involves about \$2,500,000. All the timber will be cut from the Neches and Sabine Rivers bottoms in Jefferson and Orange counties, and in other counties to the North.

In order to expedite the work the Neches Company is now constructing a new sawmill at a cost of about \$70,000. It will be located in Beaumont, just north of the present yards of the company.

Report on Southern Pine.

The Southern Pine Association for the week ended August 10 reports as follows on 132 mills:

	Cars	Feet
Orders on hand beginning of week	10,969	228,868,185
Orders received during week	2,919	60,904,935
Total	13,888	289,773,120
Shipments during week	3,403	71,003,595
Orders on hand end of week	10,485	218,769,525

Production for the week was 75,132,190 feet. Shipments were 4,128,595 feet below production or 5.50 per cent. Orders were 14,128,255 feet below production or 18.94 per cent. Orders were 14.22 per cent or 10,098,660 feet below shipments. The week was 9,605,308 feet or 11.33 per cent below normal production and orders were 28.13 per cent or 23,832,563 feet below normal production. The decrease in orders on hand amounted to 10,098,660 feet or 4.41 per cent.

Importation of Portland Cement.

The Carolina Portland Cement Co., manufacturers, importers, selling agents and dealers of Portland Cement at Charleston, S. C., in a letter to the MANUFACTURERS RECORD say that they have been bringing over foreign cement since early in the year when some of their contractor friends found it difficult to get protection from domestic manufacturers. Therefore they protected several jobs with imported cement and also brought over a little extra for general trade, this operation being effective through the ports of Charleston, Savannah, Jacksonville and New Orleans. However, this business has not assumed any great proportions and they consider it rather a temporary venture.

Hardwood Flooring Plant Completed.

Knoxville, Tenn.—The new plant here of the Appalachian Flooring Co. has been completed and is now operating to capacity with a daily production of 15,000 to 18,000 feet of oak flooring. In addition to the flooring plant, a large planing mill has also been installed on adjacent property. Officers of the company are C. F. Maples, president; C. B. Jones, vice-president; Morris Bradt, second vice-president and general manager; James E. Cassady, secretary, and N. B. Kuhlman, treasurer.

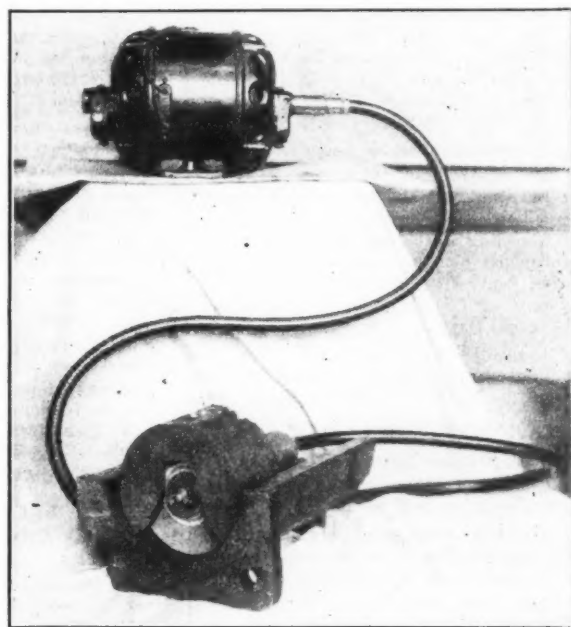
The Majestic Homes Corporation of St. Louis, which recently completed the erection of forty dwellings on Chamberlain avenue in University City, in addition to others in various parts of the city, will erect 100 more dwellings.

MECHANICAL

Portable Grinder for Cylinder Work.

The "Cyl-Grind" grinder is a new tool recently developed and it is described by the manufacturers, the Allan Manufacturing & Welding Co., Incorporated, Buffalo, N. Y., as a portable, adjustable grinder for the removal of excess metal or high spots from cylindrical surfaces. It is further stated that machined and partially finished cylinders and cylindrical surfaces having slight defects can now be salvaged by utilizing the electric, (Allan semi-arc), welding process and then removing all excess welded metal with this tool, which is made in two sizes. Type A is principally for automotive cylinder blocks and Type B for air, steam or water cylinders of the larger diameters.

In operation this grinder can be adjusted, or set, to the desired radius of the cylinder so that it will remove only the



"CYL-GRIND" GRINDER WITH MOTOR.

metal that may project above the surface of such radius and thus leave a smooth, ground finish. The grinder is set for the desired radius while the wheel is in motion and the legs of the main housing are resting on the cylinder wall, by first loosening the locking wedge, then lowering the drive shaft bearings, to which shaft the driving wheel is attached. After the desired adjustment is made the locking wedge is tightened, thus securely locking the drive shaft in the main housing and grinding may then begin. The grinder can also be employed to advantage upon flat surfaces. It is supplied either with or without driving motor and flexible shaft.

The Allan semi-arc electric welders, referred to in connection with the grinder, are particularly adapted for salvaging defective cylinder surfaces but the company also make electric arc welders for general welding work.

The accompanying illustration shows the grinder attached to a motor by a flexible shaft.

Will Build \$300,000 Sanatorium at El Paso.

El Paso, Tex.—Plans have been completed for the erection here of a \$300,000 sanatorium which will be owned and operated by Dr. R. H. Homan for the treatment of tuberculosis patients. The building will be seven stories high, with approximately 200 rooms. O. H. Thorman of El Paso is the architect.

Construction Department

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained. Further facts about any incomplete or incorrect item reported in these columns are always appreciated.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers, and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$20.00 a year.

Bridges, Culverts and Viaducts

Ala., Tuscaloosa—Tuscaloosa County let contract for 3 steel bridges and 1 concrete bridge as follows:

Concrete bridge over Thompson Branch of the Keene's Mill road to Tuscaloosa Contracting Co.; old Warrior river bridge over the Little Hurricane creek on the Keene's Mill road, over North river on the New Flagler road near Samantha and over the Sipsey river on the Shirley Bridge road, base work to Tuscaloosa Paving Co., other work The Austin Construction Co., Atlanta.

Fla., Clearwater—Details under Road and Street Construction.

Fla., DeLand—Volusia County will receive bids until September 6 for the construction of 60 ft. opening steel draw span on foundations furnished by the county at the draw site in the Central Bridge, Daytona, Fla. Address Board of County Commrs., DeLand and C. M. Rogers, Daytona, Fla.

Fla., Miami—Dade County let contracts for construction of 22 bridges over ditches in Tamiami trail to L. W. Rogers at \$3080. (Lately noted.)

Fla., St. Petersburg—City let contract to St. Petersburg Construction Co. at \$10,286 for treated timber bridge over Hooker creek at Third Ave. north and Seventeenth St.

Fla., Titusville—Brevard County let contract for construction of bridge across Haulover at Melbourne for \$16,000.

Fla., West Palm Beach—Palm Beach County will rebuild 4 bridges as follows:

Over the Loxahatchee river at Jupiter to cost \$45,000; over Boynton canal at Baynton; over Hillsboro canal at Deerfield; St. Lucie river bridge at Stuart.

Ga., Dalton—Whitfield County will construct 15 bridges. Address County Commrs.

Louisiana—Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La., received low bid from C. W. George and Co., Arcadia, La., at \$44,703.73 for the construction of 7 bridges on the Minden-Shreveport highway. Federal Aid Project 116, Section D, Webster Parish.

Md., Annapolis—Anne Arundel County will receive bids until September 4 for construction of concrete and steel bridge over Dorsey Run, one-half mi. from Annapolis Junction. Address County Commrs., Courthouse, Annapolis, Md.

Miss., Vicksburg—Details under Road and Street Construction.

S. C., Anderson—State Highway Dept. plans construction of bridge across Saluda river on the Anderson-Greenville highway to replace Dunham's bridge; approximate cost \$20,000.

S. C., Charleston—The Sanitary and Drainage Comsn., Charleston County received low bids from Sanford and Brooks, Baltimore, Md., at \$1,067,456.74 for concrete bridge, and Hardaway Contracting Co., Columbus, Ga., at \$995,188.50 for steel bridge.

S. C., Florence—Florence County received low bid from Palmer and Conrad, Florence, for construction of steel bridge across Lynches river at Edgingham at \$46,150.

S. C., Greenwood—Greenwood will construct concrete bridge over Saluda river between Greenwood and Laurens Counties; estimated cost \$80,000. Address County Commrs.

S. C., Waltersboro—Colleton County received low bid from Funderburk Construction Co., at \$7124.46 for construction of 3 treated timber bridges.

Tennessee—State Highway Dept., Nashville, Tenn., let contracts for 6 bridges and 2 culverts as follows:

Federal Project No. 63, Sumner County, reinforced concrete bridge over Drake creek, Clayton Paving Co., Nashville, at approximately \$18,624.39; Federal Project No. 89, Rutherford County, reinforced concrete bridge over Stones river, Clayton Paving Co., Nashville, at approximately \$27,001.05; Federal Project No. 94, Benton County, bridges over 20-ft. of span, Little and Dean, Memphis, Tenn., at approximately \$13,496.26; Federal Project No. 96, Bedford County, bridges over 20 ft. of span, Luten Bridge Co., Knoxville, at approximately \$22,809.62; State Project No. 129, Hickman County, 2 bridges and 2 culverts on section of highway between Centreville and Dickson County line, F. M. Crow and Co., Nashville, at approximately \$37,244.47.

Tex., Dallas—Details under Road and Street Construction.

Tex., El Paso—County Commrs. of El Paso County will receive bids until September 6 for the construction of 2 bridges across the Rio Grande at the San Elizario and for the construction of the approaches to bridges: one bridge at Fabers and one at Tornillo; 37,800 cu. yds. grading; 13,200 cu. yds. gravel hauled and placed. Address County Engr., Courthouse, El Paso, Tex.

Tex., Fairfield—Details under Road and Street Construction.

Tex., Richmond—Fort Bend County plans construction of 1180 ft. bridge over the Brazos river on State Highway No. 3; 3 steel truss spans with concrete trestle approaches; estimated cost \$224,704.54; Federal Aid \$25,352.27; Sec. of Agriculture, U. S. Bureau of Public Roads, Washington, D. C. approved plans; bids will be received in near future. C. H. Kendall, County Engr., Sugarland, and C. D. Myers, County Judge, Richmond, Tex.

W. Va., Charleston—Kanawha county let contract to Metal Products Co., Charleston at \$43,126 to construct bridge across the Elk river at Clendenin.

W. Va., Clarksburg—Harrison county let contract for 7 bridges as follows: Robinson bridge, over Jones run, Eagle district; Pigott bridge over Elk creek, Sardis district and Goff bridge over Big Rock Camp run, Sardis district to Luten Bridge Co., York, Pa. at

\$5895; bridge over Gnatty creek, Elk District, over Blue Lick run Elk district, Annmoore run, Simpson district, Concrete Steel Bridge Co. at \$3585 and bridge over Tennile creek, Union district to Hardman and Minno.

Canning and Packing Plants

Fla., Miami—Florida Preserved Fruit Corp., capital \$30,000, chartered with Auguste Jacquemex, Pres.; Geo. C. C. Sheen, Sec.

Ky., Henderson—Henderson Fruit Packers, incorporated by S. L. Marshall, J. C. Mosely and others.

Mo., Springfield—Springfield Packing Co., 304 Woodruff Bldg., lately noted incorporated with W. E. Banks, Pres., \$500,000 capital, will begin construction of plant about Nov. 1.

Clayworking Plants

Ala., Bessemer—Harbison-Walker Refractories Co., Farmers Bank Bldg., Pittsburgh, Pa., reported to erect \$600,000 plant for manufacture of tile, fire brick and other clay products; have acquired site.

Md., Aberdeen—Aberdeen Brick Co., capital \$100,000, incorporated by Geo. H. Mitchell, Wilmer Cronin, Frank A. White.

Miss., Corinth—C. L. Archer interested in organizing company with \$40,000 capital to establish plant to manufacture common and face brick, having yearly capacity of 6,000,000 brick.

S. C., Columbia—Denmark Brick Co., capital \$20,000, incorporated with C. F. Rizer, Pres.; G. M. Neeley, Sec.

Tex., Dallas—Love Field Potteries, capital \$15,000, incorporated by L. S. McKany, E. B. Doggett and others.

Coal Mines and Coke Ovens

Ala., Birmingham—Morrison Coal Co., incorporated by A. K. Foster, Vernon M. Brown and others.

Ala., Townley—Townley Coal Co., capital \$50,000, incorporated by M. K. Lang, R. Voight and others.

Ky., Pineville—See-See Coal Co., capital \$75,000, incorporated by R. I. Cawthorne, E. R. Martin and others.

Okla., Inola—Bull Creek Coal Co., A. D. Rushmart, Mgr., Locust Grove, Okla., has 120 acres coal land under development, is installing steam shovel and other equipment.

Tex., Palestine—Palestine Coal Co., capital \$150,000, incorporated by R. McDonald, T. C. Richey, and others.

Va., Danville—Deep River Coal Co., incorporated with A. C. Conway, Pres.; E. P. Crider, Sec.

W. Va., Beechbottom—A. S. Burger and associates have acquired 150 acres coal land, will develop, erect one or more tipples, about 40 miners houses, etc.

W. Va., Charleston—Tildesley Collieries Co., capital \$100,000, incorporated by E. T. Tildesley, S. S. Stone and others.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

W. Va., Elk Garden—Deep Run Big Vein Coal Co., Chas. H. Lantz, Pres., Piedmont, W. Va., reported to expend approximately \$300,000 for development of 2500 acres coal land, including building of tippie, 100-ft. incline and power plant, machine shops, miners' houses, etc.; Benjamin Robinson, Engr. in charge, Frostburg, Md.

W. Va., McDowell County—Pond Creek Pocahontas Co., T. B. Davis, Pres., No. 1, Broadway, New York, let contract to Harry M. Waugh, of Bluefield, W. Va. to construct necessary trackage leading to its plant and for installing sidings and mine trackage. (Lately noted.)

W. Va., Monongah—Jennings Coal Co., capital \$25,000, incorporated by S. J. Jenkins, Monongah; J. S. Blackman, Shinnston; K. P. Beckner, Bellington.

W. Va., Williamson—Thacker Coal & Coke Co., T. E. Houston, Pres., Cincinnati, Ohio, has under construction \$500,000 improvements, including endless chain and conveyor type, five-way tippie, tract of 1100 acres on the east side of river will be developed, building houses, install new mining machinery, etc.

Cotton Compresses and Gins

Ala., Boligee—Greene County Ginning & Cotton Co., capital \$20,000, incorporated by A. B. Demoville, D. H. Trice and others.

Ala., Castleberry—Castleberry Gin & Milling Co., incorporated by L. H. Riggs, E. A. White and others.

Miss., Ballentine—Ballentine Gin Co., capital \$10,000, incorporated by James McClure, J. Q. West and others.

Mo., Caruthersville—United Farmers Gin Co., capital \$15,000, incorporated by Parker Nichols, J. A. Franklin and others.

Mo., Portageville—Union Farmers Gin and Warehouse Co., capital \$16,000, incorporated by W. H. Carter, F. L. Boon and others.

Okla., Atoka—Garnett Gin Co., capital \$40,000, incorporated by B. E. Garnett, Durant, Okla.; Ott Reeves, Ada, Okla.

Okla., Hollis—Long Gin Co., incorporated by Clifford White, Walter Long and others.

Tex., Mount Pleasant—East Texas Compress & Warehouse Co., capital \$60,000, incorporated by H. F. Underwood, C. Ferrell and others.

Cottonseed-Oil Mills

Tex., Hereford—Guthrie Cotton Oil Co. will erect 3-stand gin at cost of \$10,000.

Tex., Smithville—Shallow Stuff Oil Co., capital \$100,000, incorporated by Roger Byrne, W. R. Searcy and others.

Tex., Waco—Industrial Cotton Oil Co., capital \$150,000, incorporated with W. D. Kyser, Pres., Marlin; J. M. Ford, Sec.

Fla., Miami—Dade County Commrs. interested in the formation of the proposed Wagner Creek Drainage Dist. covering an area of approximately 8 sq. mi.; Hobart Crabtree, County Surveyor.

Drainage and Irrigation

Fla., Tampa—R. M. Clewis and associates interested in establishing the Harney Drainage Dist. embracing 8300 acres land in Hillsborough County; B. M. Sullivan, Engr., Tampa, making preliminary surveys; estimated cost between \$60,000 and \$75,000.

Miss., Shelby—Northern Drainage Dist. Commrs. will receive bids until Aug. 28 to construct 16.9 mi. lateral ditches, containing 269,922 cu. yds. earth excavation; W. E. Boone, Civil Engr., Cleveland, Miss.

N. C., Charlotte—Mecklenburg Drainage Commn., Jas. R. Alexander, Chmn., let contract to Sigmon-Rhinehart Co., of Lincolnton, N. C., to drain portion of Raham and Clark creeks in Huntersville Township. (Lately noted.)

Electric Light and Power Plants

Ala., Dothan—City will erect hydro-electric at Chalkers Bluff; let contract to Brooks Callaway Co., Atlanta, Ga., to construct 200-ft. concrete spillway and 1 mi. earth dam, 30-ft. head, 25 mi. transmission line, power house of two units, total capacity 3000 h. p. with provision for two additional units later, making total capacity of 6000 h. p.; total cost \$800,000; Ludlow Engineers, Inc., Engr., Winston-Salem, N. C.

Ark., Cotter—Hugh L. Cooper & Co., 101 Park Ave., under contract with the North American Co., 60 Broadway, both of New York, has secured option on rights and holdings of the Dixie Power Co., Title Guaranty Bldg., St. Louis, Mo., for development of water power on White River in Arkansas and Missouri; is making study of surveys, water supply data, overflow damages, etc., and will make necessary diamond drill borings of dam site; will probably complete studies during fall and construction work may begin early in 1924; plans include special arch type, concrete dam 225 ft. high, with base about 1000 ft. and crest of 1800 ft., to establish lake nearly 100 miles long covering over 50,000 acres; project will develop about 160,000 primary electrical h. p. and will call for high tension transmission line about 240 miles from development to St. Louis; cost \$25,000,000 to \$30,000,000. (Previously noted.)

D. C., Washington—District Commrs., Capt.

John E. Wood, Asst. Engr., has plans for improvements of lighting system along 3,348,350 ft. of streets; cost about \$1,400,000.

Fla., Blountstown—City let contract for installation of electric lights. Address The Mayor.

Fla., Delray—Details under Water Works.

Fla., Eustis—Eustis Light & Water Co., capital \$300,000, incorporated with C. A. Childs, Pres.; H. C. Duncan, Sec.-Treas.

Fla., Fort Pierce—City, C. J. Ryan, Mgr., let contract to Babcock & Wilcox Co., New York City, to furnish boiler for light and water plant and let contract to Brooks Fisher Co., Atlanta, Ga., for setting boilers. (Lately noted.)

Fla., St. Augustine—Southern Utilities Co., O. H. P. Fant, local mgr., is planning improvements; plans call for removal of St. Augustine Ice Co. and St. Augustine Steam Laundry Co. (subsidiary companies) from present location on Barnard St. to Riveria St. and erection of new building to house them; ice plant will be fireproof with front of brick, asbestos roofing, steel trusses, 70x80 ft.; electrical equipment will be installed; will erect 97x75 ft. building for steam laundry, brick front, solid brick protecting side walls; plant will be electrically operated; will install 1500 k.w. steam turbine in power plant, boiler to have 250 lbs. steam pressure, 250 super heat pressure; additional artesian wells will supply new condenser and new switchboard will operate turbines.

Fla., Stuart—Details under Water Works.

Fla., West Palm Beach—Southern Utilities Co., C. H. Ellis, Mgr., will soon let contracts for erection of building at present plant, later plan erection of larger building to house entire plant; will install 3000 k.w. turbines and 500 h. p. boiler. (Lately noted.)

Ky., Louisville—Kentucky Hydro Electric Co., Lewis B. Herrington, V. P., organized to build and operate 30,000 h. p. hydro electric plant on Dix River; let contract to L. E. Myers Co., Monadnock Bldg., Chicago, Ill. for dam 275 ft. high near Highbridge.

Ky., Louisville—Louisville Hydro-Electric Co. has secured preliminary permit for development of power station at proposed U. S. lock at Falls of Ohio River.

La., Gibsland—Details under Water Works.

La., Oakdale—Details under Ice and Cold Storage Plants.

Mo., Bolivar—City will probably vote on \$45,000 bonds for reserve power plant for power dam project planned for Sac River at Stockton. Address The Mayor.

Mo., Nevada—Nevada Utilities Co., incorporated by A. G. Smith, W. F. Sterett and others.

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MANUFACTURERS RECORD

BALTIMORE, MD.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Mo., Republic—City will probably vote on \$35,000 bonds for lighting system. Address The Mayor.

Mo., Troy—East Missouri Power Co., L. A. Nickell, Mgr., will construct 40 miles of transmission line connecting Wentzville, Wright City, Warrenton, Jonesburg and Troy. Mo.; D. A. Pressley, Engr. in charge; construction by company's forces; machinery purchased. (Lately noted.)

Mo., Wentzville—City will vote on granting franchise to East Missouri Power Co., for supplying electric current and for street lighting. Address The Mayor.

N. C., Bethel—City will install electric light system; E. E. Williams, Electrical Engr., Greenville, has contract.

Tex., Dallas—Details under Land Development.

Tex., Edgewood—City voted \$15,000 electric light bonds. Address The Mayor.

Va., Charlottesville—Virginia Western Power Co., general office Clifton Forge, Va., has completed design and purchased material for construction of double circuit steel tower 110,000 volt transmission line between Charlottesville and Staunton at estimated cost of \$580,000; company plans to increase capital from \$4,000,000 to \$10,000,000. (Lately noted having acquired Charlottesville & Albemarle Ry. Co., Riverside Light & Power Co., etc.)

W. Va., Bluefield—City, Clarence R. Ridley, Mgr., receives bids until Aug. 28 to furnish and install 70 ornamental street lighting standards in business section; separate proposals received on different items at follows: 70 ornamental street lighting standards; 8500 ft. of three conduction cable, under cable, 600 volt insulation; 2050 ft. single conduction, 600 volt cable for wiring standards; installation of foundations; erection and wiring; painting; removal of curb and paving, and laying 8500 ft. of underground cable, also back filling trenches.

W. Va., Huntington—City, Floyd C. Chapman, Mayor, will expend approximately \$16,000 in improvements in Westmoreland; will install electric lights, paving, fire protection, etc.

W. Va., Welch—City Council granted electric franchise to Empire Electric Co., Joplin, Mo.; will construct transmission line from Commerce.

Fertilizer Plants.

Fla., Vero—Indian River Fertilizer Co., capital \$150,000, incorporated with Howard F. Smith, Pres.; C. E. Heald, Sec.-Treas.

Flour, Feed and Meal Mills

Mo., Imperial—Farmers Feed & Grain Co., capital \$10,000, incorporated by J. H. White; J. Passel and others.

Mo., Springfield—Mead-Patterson Grain and Feed Co., capital \$100,000, incorporated with J. D. Mead, Pres., Fort Scott, Kans.; W. M. Patterson, Springfield, Sec.; will establish warehouse for grain storage, contemplate erection of terminal elevator.

Okla., McAlester—Farm-Labor Milling Co., capital \$15,000, incorporated by C. W. Villot, McAlester; Thomas Spears, Savanna, Okla., and others.

Tenn., Murfreesboro—Middle Tennessee Mills of Lebanon, Tenn., considering establishing branch plant.

Tex., Valley View—Whaley Mill & Elevator Co., headquarters at Gainesville, Tex., will erect \$30,000 grain elevator.

Tex., Winters—Winters Milling Co. will expend \$20,000 to enlarge milling plant.

Foundry and Machine Plants

Ky., Louisville—Standard Sanitary Manufacturing Co. reported to have let contract to Patoff & Bush, 118 W. Liberty St. at \$100,000 to erect foundry, sand blast, sand drier and oxy-acetylene welding buildings; reinforced concrete, brick and steel construction.

Va., Atlantic City, P. O. Norfolk—Shamrock Propeller Co., C. H. Boyles, Pres., will erect plant corner 2nd St. and Woodis Ave., has 150x426 ft. site. (Lately noted.)

Va., Norfolk—Miller Engineering Corp., reported to have contract for radiator foundry on site near municipal terminal project at Sewells Point; controlled by Norfolk and Baltimore interests; approximate cost \$250,000.

Gas and Oil Enterprises

Ky., Louisville—Louisville Gas & Electric Co. is planning extension of boiler room of Washington St. plant; will install additional horsepower increasing capacity to 120,000 h.p.; cost \$520,000; will call for bids in autumn.

Ky., Tompkinsville—Rockbridge Oil & Gas Co., capital \$10,000, incorporated by J. J. White, Tompkinsville; Doc Miller, Rockbridge, Ky.

La., Swartz—H. C. Walton Co., Monroe, La., has acquired 15-acre site and will erect \$25,000 carbon and gasoline extraction plant near Swartz.

Okla., Oklahoma City—Dempsey Oil Co., capital \$100,000, incorporated by John J. Dempsey, Henry W. Walker and others.

Tex., Dallas—Details under Land Development.

Tex., Dallas—Thorman-Blackstone Oil Co., capital \$60,000, incorporated by H. C. Thorman, J. K. Blackstone, C. D. Kennedy.

Tex., Fort Worth—Metropolitan Oil Co., capital \$100,000, incorporated by J. E. Wians, H. M. Long, C. H. Stacer.

Tex., Houston—W. B. Sharp & Co., capital \$80,000, incorporated by W. B. Sharp, H. B. Gordon, Jr., and others; develop petroleum and gas.

Tex., Italy—Italy Oil Mill Co., capital \$30,000, incorporated by B. W. Couch, K. G. Stroud and others.

Tex., Luling—Magnolia Petroleum Co., Galveston, Tex., reported to have acquired 20 acres containing one producer and 2 drilling wells.

Tex., Ranger—Thompson Oil Corp., capital \$40,000, chartered by J. L. Thompson, L. M. Levy and others.

Tex., Ranger—Interstate Refineries Corp., of Kansas City, Mo., acquired Ranger Pipe Line & Refining Co.'s refinery, including water station and 6 filling stations in Kansas City; will install cracking units.

Tex., Rockdale—Owens Refining & Pipe Line Co. will construct about 5 mi. of pipeline to Rockdale field.

Tex., Wichita Falls—Consolidated Pipe Line Co., capital \$10,000, incorporated by J. T. Harrell, N. H. Martin and others.

Ice and Cold-Storage Plants

Fla., Hollywood—Hollywood Ice Co., incorporated with Edw. Beebe, Pres.; Myron A. Perkins, Sec.-Treas.

Fla., St. Augustine—Details under Electric Light and Power Plants.

Ky., Louisville—Consumers Ice Co. will erect plant; has acquired site.

La., Oakdale—Oakdale Ice & Light Co., A. E. Melchior, Mgr., will rebuild plant, burned at loss of \$40,000.

N. C., Bakersville—Bakersville Roller Mills Co. contemplates establishment of ice plant; daily capacity 3 to 5 tons.

Tenn., Erwin—Crystal Ice & Coal Co., W. H. Wright, will expend about \$15,000 on addition, double capacity of plant; also contemplates building addition to coal tippie.

Land Development

Ala., Birmingham—Commercial Heights Land Co., capital \$9000, incorporated by R. M. Salida, D. G. Ewing and others.

Ala., Birmingham—Claridge Manor Co., Inc., capital \$16,000, incorporated by Geo. B. Allen, A. H. Turner and others.

Ala., Huntsville—Mrs. Helen Crebs and associates have acquired 450 acres of land and will develop for residential and manufacturing sites.

Ala., Huntsville—Rosebank Nursery Co., capital \$10,000, incorporated with A. W. Newson, Pres.; Ethel S. Newson, Sec.-Treas.

Fla., Avon Park—Skipper-Lanier & Co., capital \$125,000, incorporated with C. E. Lanier, Pres.; C. A. Skipper, Sec.-Treas.

Fla., Canal Point—L. L. Davis has acquired 640 acres of muck land and will develop for farming.

Fla., Cedar Keys—Gulf Home Site Co., capital \$10,000, incorporated with W. M. Fowler, Pres.; C. C. Whiddon, Sec.-Treas.

Fla., Daytona—Columbia Realty Co., capital \$50,000, incorporate with Harry Pepper, Pres.; B. Pepper, Sec.-Treas.

Fla., Fort Lauderdale—Curtiss-Bright Ranch Co., James H. Bright, Pres., has acquired 1200 acres of Everglades land adjacent to Pine Island and will develop.

Fla., Homestead—Redland Grove Homes Co., capital \$350,000, incorporated with Will Price, Pres., Miami, Fla.; W. H. Messimer, Sec., Albany, N. Y.; have acquired 160 acres of land near Homestead and will divide into 40 acre lots and develop in avocado.

Fla., Jacksonville—Griffing Landscape Co., capital \$10,000, incorporated with W. F. Diedel, Pres.-Treas.; M. D. Green, Sec.

Fla., Miami—LaFayette Cook of Cook Springs, Ala., acquired 500 acres of land and will develop for town site.

Fla., Miami—William I. Phillips owner and developer of Belmar subdivision, let contract to Jesse J. Conklin for dredging Lake Belmar which is to be built in center of development; lake will be about 1800 ft. long with width of 135 ft. and will be dredged to depth of 5 to 6 ft.; will also dredge portion of bay forming harbor for yachts; will construct driveway around lake with cross streets connecting with east Dixie highway; each lot will have private docking space with riparian rights.

Fla., Pablo Beach—Pablo Beach Improvement Co., W. R. Rannie, Pres., will develop subdivision; construct 80-ft. streets and one 100-ft. boulevard.

Fla., Sanford—Britt Realty Co., capital \$10,000, incorporated with C. L. Britt, Pres.; S. M. Britt, Sec.-Treas.

Fla., Santa Rosa—Kanifa Lumber Co., Bagdad, Fla., will develop 2500 acres of cut over lands in Satsuma oranges.

Fla., Tampa—Boulevard Realty Co., lately noted incorporated with \$25,000 capital stock, Fred A. Grahm, Pres., 514½ Franklin St.; Price D. Fessenden, Sec.; will develop 25 acres for residential subdivision; pave streets, etc.

Ga., Atlanta—Sunset Hills Development Co., capital \$200,000, incorporated by H. E. Perry, J. A. Robinson and others.

Md., Baltimore—Edw. H. Bouton, Mary-

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

land Trust Bldg., Robert Garrett, Garrett Bldg., James Carey Martien, Lexington Bldg., have purchased Perrine Estate, comprising about 400 acres on Charles St. Ave. for residential development; have engaged Olmsted Bros., Brookline, Mass., as Landscape Archts.

Md., Baltimore—Port Realty Co., 1506 Eutaw Place, incorporated by John C. Knox, Alexis Walter and others.

Md., Baltimore—Beta Mu Building Co., 514 St. Paul St., capital \$25,000, incorporated by Philip S. Morgan, W. Calvin Chestnut and others.

Md., Chestertown—Chestertown Development Co., capital \$10,000, incorporated by Laurence G. Brown, Wm. B. Capper and others.

Miss., Hovey—Pioneer Fruit Co., W. P. James, Mgr., will develop cut-over farm lands along line of Gulf and Ship Island R. R.

Mo., Kansas City—Peoples Buying Service, capital \$50,000, incorporated by L. L. Adams, D. P. McKinley and others.

Mo., Kansas City—Ricardo Realty Co., capital \$50,000, incorporated by M. B. Loop, S. S. Shapiro and others.

Mo., Kansas City—Roanoke Valentine Realty Co., capital \$50,000, incorporated by M. B. Loop, Harold Waxman and others.

N. C., Carthage—Blue Farms, capital \$250,000, incorporated by D. Al. Blue, of Carthage; A. H. McLeod, Aberdeen, and others.

N. C., Greensboro—J. M. Millikan has 44 acres on Friendly Road and will develop for residential site.

N. C., Salisbury—Western Realty Co., capital \$600,000, incorporated by B. F. Huntley, B. F. Huntley, Jr., and others.

N. C., Winston-Salem—D. D. Smith will develop 9000 acres of land surrounding Hanging Rock for mountain resort; will construct 4-3/10 mi. road to top of mountain; plan golf course, erect hotel; build dam.

Okla., Bartlesville—Kiwanis Club interested in development of park in Grand View addition.

Okla., Pauls Valley—City voted \$10,000 park improvement bonds. Address The Mayor.

S. C., Columbia—Wm. M. Gibbs, Jr., Inc., incorporated by Wm. M. Gibbs and others.

Tex., Dallas—Curry Realty & Loan Co., capital \$100,000, incorporated by A. H. Curry, F. C. Beattie and others.

Tex., Dallas—Dominion Realty & Investment Co., capital \$250,000, incorporated by G. E. Workman, F. P. Redman, Jr., and others.

Tex., Dallas—B. C. Lucas and associates will develop residential section on Mocking Bird Lane; plans by Meyers & Noyes, Engrs.

Tex., Dallas—Kessler Highlands Development Co., J. B. Salmon, Pres., let contract to Myers & Noyes, Engrs., Dallas, for installing all modern equipment, streets, lights, water and gas, in Kessler Heights, suburban development; contract for grading streets let to O'Connor Bros. (Lately noted.)

Tex., Houston—Webster Realty Corp., capital \$100,000, incorporated by J. S. Webster, C. E. Shively, H. C. Meyer.

Tex., Taylor—Details under Miscellaneous Construction.

Va., Fox Hill—Grand View Development Corp., capital \$50,000, chartered with H. L. Gordon, Pres.; C. R. Johnson, Sec.

Va., Norton—W. D. Fuller and Charles Hall, Jr., interested in development of West Gate for subdivision; will install water, sewer, etc.; construct macadamized street.

Va., Norfolk—Board of Trade Bldg., Inc., capital \$100,000, incorporated with J. P. East, Pres.; T. J. East, Sec.

Va., Roanoke—Barnett-Howerton-Showalter Corp., capital \$25,000, chartered with M. L. Barnett, Pres.; E. H. Howerton, Sec.

Va., Roanoke—Edgehill Corp., capital \$50,000, chartered with C. Shelburne Spindle, Pres.; S. King Funkhouser, Sec.

W. Va., Huntington—Blair P. Wilson and associates acquired the holdings of the Huntington Orchard Co., consisting of 275 acres of land and will develop into orchard tracts.

Lumber Enterprises

Ala., Birmingham—Kirkpatrick Lumber & Timber Co., increased capital from \$10,000 to \$50,000.

Fla., Miami—William Webster, of Boston, Mass., has acquired holdings of the Little River Lumber Co.

Miss., Meridian—Consumers Lumber Co., re-organized with \$200,000 capital, Walter G. Hodges, Pres.; N. H. Nicholson, Sec.-Treas.

Miss., Pascagoula—Poitevin Brothers, E. C. Poitevin, Mgr., (lately noted incorporated, capital \$25,000) will erect building for manufacture of rough and dressed lumber; construction by owners. (See Machinery Wanted—Moulder and Matcher.)

Mining

Okla., Oklahoma City—Stuckey International Mining & Milling Co., capital \$50,000, incorporated by A. D. Lloyd, W. R. Prullitt and others.

Tex., Lueders—Lueders' Building Stone Co. will install additional equipment at stone quarry; has derrick and crane.

Va., Brandy—Brandy Mining Co., main office McLean, Va., will develop 75 acres copper deposits; install machinery; address F. N. Hagman, Jr., Vienna, Va.

Miscellaneous Construction

Fla., Miami—Dredging—Details under Land Developments.

Fla., St. Petersburg—Incinerator—City will receive bids until Sept. 17 on 80 ton daily capacity incinerator plant; has site on 3rd Ave. south of 12th St.; Ernest Kitchen, Director of Public Works.

Fla., Sanford—Dock and Boat Basin—City, Comsn. will receive bids until August 27 for construction of dock and boat basin; has \$67,000 available; W. B. Williams, City Mgr.

Fla., Stuart—Retaining Wall—Details under Water Works.

La., Lake Charles—Channels—Calcasieu Parish Police Jury will receive bids until Sept. 18 to construct two sections of navigation channels eastward from the Sabine river distance of 404 stations.

La., New Orleans—Wharf—Port Commrs., Suite 200 New Court Bldg., will open bids Aug. 23 for woodwork in connection with shed at Poland St. wharf, cost \$15,000; will soon call for bids for 40-ft. extension to dock; also for clearing of site and substructure; cost of entire project \$450,000. (Lately noted.)

Md., Baltimore—Port Development—H. E. Crook Co., Inc., has agreed to accept City's offer of \$440,000 for property at Locust Point; site 462x1600 ft. adjoins McComas St. development of city; Ralph C. Sharretts, Executive Sec. of the Public Improvement Comm.

N. C., Winston-Salem—Dam—Details under Land Developments.

S. C., Anderson—Incinerator—City let con-

tract to Nye Odorless Creamatory Co., of Macon, Ga., to install incinerator, capacity from 18 to 25 tons; has acquired 12 1/2 acre site for plant. W. A. Speer, Mayor.

S. C., Charleston—Pier—Port Utilities Comsn., M. Rutledge Rivers, Chmn., plans constructing general cargo pier at the Union wharves, contemplates developing fishing industry.

Tex., Austin—Incinerator—Details under Water Works.

Tex., Beaumont—Wharf—Beaumont Wharf & Dock Comn. is spending \$400,000 on extension and improvements to the municipal terminals and wharf systems; the completion of the present extension program will give a municipal wharf system with 3000 ft. of space, double its present capacity.

Tex., Cleburne—Swimming Pool, etc.—Granger, Amusement Co., Jack Granger, Pres. of Fort Worth, Tex., will construct swimming pool, paint and repair building in Fair Park.

Tex., Corpus Christi—Shore Protection—City and Comms. of Nueces County Navigation Dist. No. 1 will receive bids until Sept. 10 to construct hydraulic fill shore protection in northern portion of city, involving about 3,000,000 cu. yds. earth excavation; Robert J. Cummins and E. E. Sands, Consit. Engrs., 732 Bankers Mortgage Bldg., Houston, Tex.; P. G. Lovenskiold, Mayor.

Tex., Galveston—Pier—North Jetty Fishing Pier Co., W. J. Chapman, Managing Director, organized to build \$10,000 fishing pier on North Jetties.

Tex., Houston—Trackage, etc.—Navigation District Comn. will receive bids until Sept. 6 for 8 mi. trackage used as a classification yard necessary for the new wharves and elevator, for the convenience of increased port facilities.

Tex., Houston—Wharves—Harris County Navigation Dist., H. L. Washburn, Auditor and Pur. Agent, receives bids until August 30 for construction of three continuous wharf units containing 1720 lin. ft. reinforced concrete, 40-47 ft. wide, at turning basin.

Tex., Port Aransas—City has begun construction of approximately 13,000 ft. of seawall along bay front, dredge channel same length, 7-ft. deep and 130 to 175-ft. wide; also build road through the shallow waters from Aransas Pass to Ransom's island which will be used for resort purposes; J. A. Zimmerman, Mayor. (Previously noted.)

Tex., Taylor—Natatorium—City will construct indoor natatorium and municipal park; voted \$50,000 bonds. Address The Mayor.

Tex., Texas City—Dredging—John Jacobson, of Galveston, Tex., has received contract for following work: to construct bulkhead and wharf at the plant of the Texas Sugar Refining Co.; to dredge slip to the wharf of the Texas City Terminal Railway Co. and for government dredging on the Texas City-Galveston ship channel; work calls for the removal of about 200,000 cu. yds. soil.

Va., Richmond—Swimming Pool—City will construct swimming pools in S. Richmond, East End, West End and other sites; contemplates \$125,000 bond issue. Address Mayor Ainslie.

Miscellaneous Enterprises

Ala., Montgomery—National Carbon Co., Inc., New York, will establish branch plant; Fred S. Ball, official agent, offices First National Bank Bldg., Montgomery.

Ark., Fort Smith—Model Window Glass Co., C. P. Zenor, Pres., will rebuild plant, burned at loss of \$200,000.

Ala., Troy—The Troy Herald, incorporated by R. F. Powell, M. N. Dodson and B. G. McCallaman.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

D. C., Washington—H. N. D. Parker Manufacturing & Publishing Co., capital \$100,000, incorporated by H. N. D. Parker, W. D. Bentley and others.

D. C., Washington — Income Properties Corp., capital \$1,500,000, chartered by Ralph U. Shiley, James M. Carter, Wm. Todd.

D. C., Washington — Kapneck Electrical Fixture Co., capital \$50,000, incorporated by Henry Kapneck, Leonard A. Black and others.

Fla., Jacksonville—Florida Screw Machine Products Co., capital \$50,000, incorporated with M. F. Marshall, Pres.; T. Duncan, Sec.-Treas.

Fla., Leesburg—Sudderth Modern Seamless Vaults, D. H. Sudderth, will establish plant for the manufacture of waterproof vaults.

Fla., Orlando—Freite Sales Co., Inc., capital \$10,000, chartered by U. L. Boerstlen, Orlando; David Kockendarfer, Washington. Pa., H. L. Nelson, Masontown, Pa.

Fla., St. Augustine—Laundry—Details under Electric Light and Power Plants.

Fla., Sanford—The Florida Trucker, capital \$50,000, incorporated with R. J. Holly, Pres.; L. I. Frazier, Sec.-Treas.; will publish magazine, etc.

Ky., Louisville—Lee Lewis Co., increased capital from \$10,000 to \$50,000.

Ky., Paducah—Miller—Overstreet Manufacturing Co., will manufacture brooms, mops, etc.; changed name from Paducah Paper Co.

La., Bastrop—Southern Glass Co. has acquired plant of the Ouachita Valley Glass Co., will operate, manufacture fruit jars and bottles.

La., Baton Rouge—Guarantee Roofing Co., incorporated with Wm Thibodeaux, Pres.; A. Grouchy, Jr., V. P.

Md., Baltimore — Baltimore & Virginia Steamboat Co., Pier 1, Pratt St., capital \$150,000, incorporated by Turnbull Murdock, Wm. L. Rothstein and others.

Md., Baltimore—Wagner-Correll, 216 S. Garrison Lane, capital \$50,000, incorporated by Robert A. Wagner, Harvey R. Correll; will establish bakery.

Md., Baltimore—Star Drug Manufacturing Co., 1600 Druid Hill Ave., capital \$50,000, incorporated by Samuel S. Horn, Henry Rhinehart and others.

Md., Baltimore—Auto Illuminating License Co., 215 Equitable Bldg., capital \$100,000; incorporated by Harry F. Wittig, Wm. B. Chenoworth and others; manufacture license tag holder.

Md., Baltimore — Atlantic Southwestern Broom Co., 1300 Second St. let contract to H. E. Fisher, at \$11,000 to 2 story brick addition, 88x96x22 ft.

Md., Cumberland—Snyder Electric Co., 125 Henry St., capital \$50,000, incorporated by David P. Snyder, John F. Schaidt, and others.

Md., Hagerstown — Western Maryland Plumbers Supply & Hardware Corp., 10 Main Ave., capital \$100,000, incorporated by Edward K. Bachtell, Ollie G. Yourtee and others.

Md., Hagerstown—Potomac Transmission Co., Wingert Bldg., incorporated by Delano Andrews, Horace R. Lamb and others.

Miss., Gulfport—Lawler-Nauck Manufacturing Co., capital \$60,000, incorporated by D. C. Lawler, Gulfport; Chas. E. Nauck, New Orleans, La., and others; to manufacture machinery and novelties.

Mo., Cape Girardeau—Caradine Hat Co., of St. Louis, Mo., considering establishment of plant.

Mo., Caruthersville — Caruthersville Mattress Co., incorporated by J. R. Hutchison, W. T. Stover and others.

Mo., Chillicothe—Undertakers—B. F. Norman, of the Normal Funeral Home, will erect 2 story and basement building for funeral home; construction beginning about first of year; has acquired site on S. Locust St.

Mo., Excelsior Springs—Excelsior Springs Amusement Co., incorporated by E. L. and E. G. Parker and others.

Mo., Kansas City—Kansas City Weather Strip Manufacturing Co., capital \$25,000, incorporated by E. A. English, T. B. McCormick and others.

Mo., Kansas City—Bray Hotel Co., capital \$30,000, incorporated by Sam Josephson and others.

Mo., St. Joseph—Park Floral Co., capital \$16,000, incorporated by E. A. Gramer, M. E. Manning, and others.

Mo., St. Louis—G. E. Walker Co., 1926 Chestnut St., capital \$15,000, incorporated by G. E. Walker, O. C. Gilbert and others; will manufacture electrical and radio equipment.

Mo., St. Louis—Werner Cleaning & Dyeing Co., capital \$20,000, incorporated by E. C. Werner, R. P. Cooney and others.

Mo., St. Louis—Nugrape Co. of America, incorporated by K. K. Keiley, Fred Effel and others.

Mo., St. Louis—Day-Brite Reflector Co., 222 S. 8th St., O. W. Klingsick, Pres., will manufacture show case lighting reflectors; will install buffing and polishing machines, plating machines, spraying machines. (See Machinery Wanted—Buffing and Polishing Machines, etc.)

Mo., Silkeston—Baker Bowman Hardware Co., capital \$15,000, incorporated H. W. Baker, Jr., L. R. Bowman and others.

Mo., Weston—Weston Tobacco Warehouse Co., capital \$100,000, incorporated by W. A. Gray, A. A. Jones and others.

Mo., Worland—Worland Manufacturing Co., capital \$25,000, incorporated by W. J. Mullies, L. A. Runyan and others.

N. C., Benson—Benson Cotton Warehouse Co., capital \$100,000, incorporated by S. P. Honeycutt, H. T. Britt and others.

N. C., Charlotte—American Bakeries Co., of Atlanta, Ga., Geo. I. Bradford, Mgr., has site on West Trade St. for erection of bakery; 186x154 ft.; building will be equipped with latest type ovens and machinery; cost \$25,000.

N. C., Hickory—A. G. Kirkpatrick and N. E. Aull will establish plant with daily capacity 250 doz. handkerchiefs.

N. C., High Point—High Point Publishing Co., capital \$25,000, incorporated by J. E. Millis, S. C. Clark and others.

N. C., Winston-Salem—Bruce Coles Kennedy Co., capital \$25,000, incorporated by W. H. Bruce, W. R. Cole, H. L. Kennedy.

Okla., Blackwell—Hazel Atlas Co. let contract for improvements to cost approximately \$100,000; plans include structural steel warehouse 100x180 ft.; structural steel power house 65x100 ft.; addition to power plant.

Okla., Miami—Ottawa County Amusement Co., capital \$10,000, incorporated by W. H. Tratt, C. J. Fribley and others.

Okla., Tulsa—Producers' Co-operative Co., capital \$25,000, incorporated by W. L. North, John T. Kramer and others.

Okla., Tulsa—Globe Clothing Co., capital \$25,000, incorporated by Hershell Borochoff and Pearl Tally and others.

S. C., Anderson—McDougald-Bleckley Co., capital \$20,000, incorporated with Darwin L. Reid, Pres.; J. S. McDougald, Sec.-Gen. Mgr.

S. C., Columbia—Budwine Bottling Co., incorporated with R. S. Patterson, Pres.; N. B. Patterson, V.-P.

Tenn., Chattanooga—Willingham & Co., increased capital from \$5000 to \$200,000.

Tenn., Memphis—Gilmore & Thompson, of Birmingham, Ala., have leased portion of Messick Building at Madison and 3rd St., will manufacture artificial limbs.

Tenn., Memphis—F. M. Crump & Co., Inc., 14 S. Front St., capital \$300,000, incorporated by D. H. Crump, H. B. Potts and others.

Tenn., Pulaski—Pulaski Development Co., H. G. Foster, Pres., will erect building to cost about \$50,000 to be occupied by American Cigar Co. as branch plant.

Tex., Beaumont—Franklin Warehouse Co., capital \$10,000, incorporated by J. B. Peek, Anna L. Turner and others.

Tex., Brownwood—H. C. Burks & Co., capital \$100,000, incorporated by H. C. Burks, Leroy Nicholson and others.

Tex., Dallas—Metropolis Co., capital \$10,000, incorporated by S. W. Walker, E. L. Bryan and others.

Tex., Dallas—Texas Drug Co. increased capital from \$200,000 to \$300,000.

Tex., Dallas—Texas Custom Garment Co., incorporated by M. M. Fein, Leo Fife and others.

Tex., Dallas—J. H. Oppenheim of New Orleans, Pres. of Texas Corrugated Box Co., has plant under construction at Love Field for manufacture of corrugated boxes with daily output capacity of 500,000 sq. ft. of corrugated boxing; raw material will consist of wood pulp and straw from Bogalosa and New Iberia, La.

Tex., Fort Worth—Airway Port—Chester Leffler of the Chamber of Commerce and others interested in establishing an official airport on the new north and south model airway between St. Louis and San Antonio.

Tex., Fort Worth—Gosho Co., Inc., increased capital from \$500,000 to \$750,000.

Tex., Houston—S. L. Richards Corp., capital \$10,000, chartered by C. E. Patton, S. L. Richards, and others.

Tex., Houston—Blakely Smith & Co., capital \$50,000, incorporated by Blakely Smith, E. P. Chandler, and others; will establish steamship companies.

Tex., Kemp—Becker Brothers, capital \$20,000, incorporated by George and W. K. Becker.

Tex., Orange—Texas Creosoting Co., lately noted incorporated with \$450,000 capital, R. S. Manley, Pres., D. E. Roach, Sec.; will erect plant for the manufacture of creosoted ties, poles, piles, timbers, cross arms, etc., daily output 75,000 ft. B. M.; will install extra heavy tanks, cylinders and piping locomotive cranes, high pressure air and vacuum pumps; address machinery proposals to E. B. Shipley, Consult. Engr., 1053 Century Bldg., Pittsburgh, Pa.

Tex., San Antonio—Chapin-Kemp Co., capital \$15,000, incorporated by O. C. Chapin, L. W. Kemp and others.

Tex., San Antonio—Alamo Paving Co., capital \$100,000, incorporated by R. L. White, J. S. McNoel and others.

Tex., Waco—American Storage Battery Co., capital \$15,000, incorporated by V. K. Besonette, John Maxwell and others.

Va., Big Stone Gap—Merchants Beverage Corp., capital \$50,000, chartered with E. M. Gilly, Pres.; C. M. Daugherty, Sec.

Va., Big Stone Gap—E. M. Gilly is Pres. and C. M. Daugherty, Sec. and Treas. of company organized to erect \$15,000 bottling plant.

Va., Clarendon—Allison Construction Co., capital \$15,000, incorporated with Richard A. Allison, Pres.; Richard B. Allison, Sec.

Va., Clarendon—Frank Davis, Inc., capi-

tal \$20,000, incorporated by Frank Davis, Clarendon, A. E. Constantine and Milton Strausburg, both Washington, D. C.

Va., Lynchburg—G. A. Coleman Co., Inc., capital \$25,000, incorporated with Wm. B. Bigbee, Pres.; Ernest M. Taylor, Sec.

Va., Martinsville—Mica Corp., J. T. Mulhane, Pres., will establish plant to manufacture mica into various commercial shapes; machinery purchased; has series of mines in Stokes and Rockingham Counties, N. C., and in Henry, Pittsylvania and Franklin Counties, Va.

Va., Meadow View—Edmondson Electric Co. increased capital from \$25,000 to \$300,000.

Va., Norfolk—Model Bakery, capital \$25,000, incorporated with W. J. Fuez, Pres.; R. C. Cole, Sec.

Va., Norfolk—Manley Life Boat-Releasing Device Co., capital \$75,000, incorporated by G. F. Dougherty, W. P. Overman, both Norfolk, Ernest P. Manley, Portsmouth.

Va., Norfolk—Norfolk Sugar Refinery Co., Inc., has organized with following temporary officers: S. S. Lees, Pres., 165 Broadway; R. A. Monks, V.-P., 438 Broadway; Eldridge H. Brooks, Sec., 82 Beaver St.; all of New York; J. B. Morgan, Southern Produce Bldg., Norfolk, Treas.; will build \$3,600,000 sugar refinery on 26 acre site on Sewells Point; construction by Eastwick Engineering Co., 185 Madison Ave., New York; city will dredge slip 100x700 ft. (Lately noted.)

Va., Richmond—Export Leaf Tobacco Co. will erect addition to plant on Hermitage Road; cost \$80,000; E. L. Bass Co., Contrs.; J. M. Currin and G. H. Hilgartler, Archts.

Va., Roanoke—Norwich Supply Co., capital \$25,000, incorporated with C. T. Dudley, Pres.; L. Franklin Moore, Sec.

Va., Roanoke—Roanoke Cloak & Suit Corp., capital \$50,000, chartered with Joseph H. Chitwood, Pres.; Frank W. Rogers, Sec.; manufacture suits, etc.

W. Va., Huntington—West Virginia Hardware & Supply Co., capital \$250,000, C. McD. England, Pres., Lexington, Ky., formed by merger of Logan Hardware & Supply Co. of Logan, W. Va.; Lexington Mine & Mill Supply Co., Lexington, Ky.; Welch Hardware & Supply Co. of Welch, W. Va.; West Virginia Hardware & Supply Co., of Huntington; will erect \$100,000 supply distributing plant on Adams Ave.

W. Va., Kingwood—Kingwood Bakery & Ice Co. will erect additional building.

Motor Cars, Garages, Tires, Etc.

Ala., Jasper—Jasper Buick Co., capital \$25,000, incorporated by Norman Guin, R. A. Cooner and others.

Ark., Brinkley—Garage—W. S. Brown will erect brick and stone garage building on Bankhead Highway; 1 story, 50x90-ft., cost \$9000; Estes W. Mann, Archt., Memphis, Tenn.

Florida—Florida Auto-tel System, Sam B. Crosby, field Mgr., Orlando, Fla., plans expending \$1,000,000 in building and equipping system or chain of hotels throughout the state of Florida for the accommodation of automobile tourists.

Fla., Bradentown—Bradentown Sales Co. will erect automobile sales and garage building on Broad St.; hollow tile construction; has acquired 100x200 ft. site on Broad St.

Fla., Jacksonville—Automobile Accessories—Lee-Simpson Co., capital \$20,000, incorporated with James B. Lee, Pres.; Roy C. Simpson, Sec.-Treas.

Fla., Miami—Garage—P. B. Bechard and K. F. Martin will erect 4 story 50x147-ft. garage building, steel and concrete construction,

built to accommodate four additional stories; install passenger and automobile elevators, concrete stairway connecting different floors; three upper floors used for storage; approximate capacity 200 automobiles; estimated cost \$150,000; J. C. Gault, Archt.

Fla., Orlando—Owl Motor Co., capital \$25,000, incorporated with Belton Long, Pres.; Richard B. Bryan, Sec.-Treas.

Fla., St. Petersburg—Garage, etc.—H. T. Davis, Director of Finance, receives bids until Sept. 4 to construct garage and warehouse at 11th St. and 3rd Ave.; plans at office of Director of Public Works.

Fla., Tampa—Whiting Railway Motor Car Co., capital \$200,000, incorporated with A. P. Stuckey, Pres.; F. W. Brown, Sec.-Treas.

Fla., West Palm Beach—Oliver Motor Co. let contract to Wilcox Bros., Inc., to erect 114x136 ft. automobile sales building and garage at 3rd and Railroad Aves., 1 story, brick, concrete and tile construction.

Ga., Augusta—Richmond Motor Co., incorporated by G. B. Mitchell, Jr., W. A. Wray, Jr. and others.

La., Monroe—Monroe Filling Station, Inc., capital \$20,000, incorporated with O. K. Allen, Pres.; R. H. Fletcher, Sec.-Treas.; both Winnfield, La.

Md., Havre de Grace—Tiger Tire & Rubber Corp., capital \$1,000,000; chartered with H. H. Hastings, Pres.; H. C. Moore, Sec.-Treas.; will erect building.

Mo., Kansas City—Brunswick Tire Corp., chartered by Simon Gross, G. B. Hart and others.

Mo., Kansas City—Wysong-Iams Motor Co., incorporated by E. W. Wysong, S. R. Iams and others.

N. C., High Point—Filling Station—O. G. Allen will erect gasoline and oil filling station corner Broad and Markley Sts.

Okla., Pawhuska—McCurdy Motor Sales Corp., capital \$100,000, incorporated by W. H. Smith, E. J. McCurdy, Jr. and others.

S. C., Charleston—Jacobs Overland Co., increased capital from \$10,000 to \$20,000.

S. C., Greenville—Automobile—Santo Sotille, Inc., capital \$25,000, chartered by Santo Sotille, H. D. Fulkner and E. F. Bleakley.

Tenn., Knoxville—Superior Tire Co., capital \$15,000, incorporated by L. A. Clark, Ross Smith and others.

Tenn., Nashville—Chevrolet-Nashville Co., A. W. Davis, Mgr., 19 Third Ave., let contract to Summer Construction Co. to erect 1-story, 150-ft. front building on 504 Broadway, having 25,000 ft. floor space; cost \$50,000; Marr & Holman, Archts.

Tex., Austin—Paige-Jewett Co., incorporated by Q. C. Taylor, J. H. Gardner and others.

Tex., Beaumont—Friend-Rowe Motor Co., capital \$12,000, incorporated by J. C. McNeill, F. S. Dibble and others.

Tex., Cisco—Carroll Auto Supply Co., capital \$45,000, incorporated by D. T. Carroll, O. S. Carroll, and others.

Tex., Dallas—Automobile Accessories—Lamberth Bros., incorporated by T. M. and C. W. Lamberth and others.

Tex., Dallas—Hilose Gasoline Co., increased capital from \$100,000 to \$150,000.

Tex., Rockdale—Garage, etc.—W. P. Henry will erect garage and filling station; has acquired 62½x90 ft. site corner N. Main St.

Tex., San Antonio—Garage—Dr. H. H. Ogilvie, Moore Bldg., will erect 91x105-ft. fireproof garage building, reinforced concrete, composition roofing, cement floor, steel rolling metal doors, steel sash; estimated cost \$45,000; Adams & Adams, Archts., 517 Gibbs Bldg., San Antonio.

Va., Lynchburg—State Highway Comsn. will erect garage and storage house for the Lynchburg Dist. of the Dept.; F. D. Hatley, Engr. of the Right of Way Comsn.

Va., Narrows—Narrows Motor Co., capital \$25,000, incorporated with A. P. McGinley, Pres.; K. R. Shumate, Sec.

Va., Richmond—Car Owner Service Co., capital \$1,000,000, incorporated by M. E. Thomas, Pres.; C. T. Reeves, Sec.

W. Va., Anawalt—Jeannette Garage, Inc., capital \$25,000, chartered by Q. C. and F. L. Taylor, and others.

W. Va., Martinsburg—Garage—Owen Welsh will erect 1-story concrete block garage building at 310 S. Maple Ave.

Railway Shops, Terminals, Round-houses, Etc.

Va., Lynchburg—Chesapeake & Ohio Ry. Co., C. W. Johns, Chief Engr., Roanoke, Va., reported as having plans for installation of an interlocking system for tracks at junction with Norfolk and Western, also telegraph tower at crossing; estimated cost \$75,000.

Railways

Ark., Rogers—Loy Colley and Wm. A. Doeries, of Springdale, Ark., are reported working on rights of way and engineering plans respectively for a railroad from Monte Ne to Rogers and other points east and west between Tulsa, Okla., and Memphis, Tenn.

Fla., Bradentown—Tampa Southern Railroad Co. has it is reported awarded contract to Cook & Co., of Bradentown to grade 13 mi. of line, including ditching and bridges, culverts, etc., between Bradentown and Sarasota, Fla. Work to begin immediately and to be complete January 1. J. E. Willoughby, Ch. Engrs., Atlanta Coast Line, Wilmington, N. C., in charge.

Miss., Amory—Mississippian Railway Co. is reported organized with John T. Cochrane, of Mobile, Ala., as president, to build a railroad from Amory to a connection with the Frisco System at Amory to Fulton, Miss., about 25 mi. John T. Cochrane, Jr., of Amory and P. P. Byrne, of Pine Hill, Ala., are incorporators.

Okla., Beaver—Beaver, Meade & Englewood Railroad Co., has asked the Interstate Commerce Commission for authority to build an extension from Forgan to Hooker, Okla., 40 mi. Jacob Achenbach, of Hardtner, Kan., is Pres. and E. E. Booth, of Beaver, is Supt.

Tenn., Kingsport—Laurel Fork & Mendota Railroad Co. has applied to the Interstate Commerce Commission for authority to build a line from Mendota, Va., to Kingsport, about 20 mi., connection at the first named point being with the Southern Railway and the latter with the Carolina, Clinchfield & Ohio Railway. John M. Kreger, Abingdon, Va., is president.

Tex., Amarillo—A. S. Stinnet and other business men of Amarillo are reported promoting plans to build a railroad from Amarillo through the north plains country to some point in Kansas yet to be chosen. J. N. Riggs, W. N. Thompson and H. W. Blackburn are named as trustees for the proposed line.

Tex., Bryan—Bryan-College Traction Co., capital stock \$27,000, chartered to build and operate an electric line between Bryan and College Station. Incorporators: E. H. Edge, J. M. Lawrence, J. M. Gordon, H. O. Boatwright, E. H. Austin, W. Wipprecht, G. C. Chance, W. S. Higgs, all of Bryan, and James Sullivan and F. C. Bolton, of College Station.

Tex., Sam Fordyce—Rio Grande City & Northern Railroad Co. chartered to build a

line from Sam Fordyce to Rio Grande City and thence to a connection with the Texas-Mexican Railway in Webb County, 85 mi. Capital stock \$440,000. Directors: H. Williams, R. A. Abernathy, E. B. Williams, and A. G. Fullerton, of Dallas, Tex.; S. C. Scott, J. M. Gay and J. W. Wilson, of McKinney, Tex.; C. J. Starnes and A. J. Farmer, of Forney, Tex., and D. W. Harrel, of Sherman, Tex.

Road and Street Construction

Alabama—State Highway Comsn., Montgomery, Ala., will receive bids until September 18 for building of 7.756 mi. Butler-Meridian road in Choctaw county; 16 acres clearing and grubbing; 1023.34 cu. yds. class A concrete in culverts and bridges; 123,635 lbs. steel reinforcing in culverts and bridges; 14,128 lin. ft. 3-4 in. galv. cable for guard rail. W. S. Keller, State Highway Engr.

Ala., Decatur—City plans paving eight streets. Address The Mayor.

Ala., Huntsville—Madison county plans improving roads. Address County Commrs.

Ark., Blytheville—Board of Commrs. of Improvement Districts Nos. 2 and 3 receives bids August 23 for following street improvements:

District No. 2, 54,313 sq. yds. 2-in. Warrenite-bitulithic wearing surface on 5-in. 1-3-5 concrete base or 54,313 sq. yds. 6-in. reinforced concrete 1-2-3 1-2 mix; 2917 sq. yds. 7-in. oiled, gravel surfacing; 40,949 lin. ft. 6-in. single curb, 3100 lin. ft. 36-in. double gutter, 819 lin. ft. concrete headers; 12,318 lin. ft. 10 to 24-in. storm sewer; 225,000 ft. B. M. cribbing.

District No. 3, 55,500 sq. yds. 2-in. Warrenite-bitulithic wearing surface on 5-in. 1-2-3 concrete base or 55,500 sq. yds. 6-in. reinforced concrete, 1-2-3 1-2 mix; 6740 sq. yds. 7-in. oiled gravel surfacing; 62,240 sq. yds. rolling and finishing; 41,815 lin. ft. 6-in. single curb; 7488 lin. ft. 36-in. double gutter, 2282 lin. ft. concrete headers; 12,319 lin. ft. 10 to 21-in. storm sewer; 225,000 ft. B. M. cribbing. E. T. Archer, and Co., Engrs., New England Bldg., Kansas City, Mo.

Ark., Camden—City receives bids August 21 for 12,900 sq. yds. asphaltic concrete wearing surface (Topeka mix) 2-in. thick; 12,900 sq. yds. cement concrete base, 5-in. thick, 1-3-6 mix; 10,900 lin. ft. combination curb and gutter; 25 storm sewer inlets or catch basins, 6 ft. deep and under; 2425 lin. ft. 12 to 18-in. vitrified pipe storm sewers. Humphreys, Alexander and Humphreys, Engrs.; O. E. Westfall, Sec. Board of Commrs.

Ark., Russellville—City let contract to Peter Huggler, Russellville at approximately \$26,000 for paving Oak and Washington Sts. (Lately noted.)

Ark., Walnut Ridge—City let contract to C. L. Hager, Walnut Ridge, at \$75,000, for laying 15,000 sq. yds. concrete base, asphalt top, gravel pavement on Main St.

D. C., Washington—City let contracts for grading of following streets: L. P. Haw and Co. Nevada ave., northwest, between Livingston and Keokuk sts.; Latimer and Maloney, Otis st., northeast, Monroe st., northeast, Newton st., northeast, Twenty-second st. northeast, Jackson st. northeast, Underwood st. northwest, Ellicott st., northwest, Third st. northwest, and Eighteenth st. northwest.

Florida—State Road Dept., Tallahassee. Fla. let contract to Noll and Noll, Melbourne for 15 mi. of State Aid Road from Melbourne west.

Fla., Avon Park—City will pave with asphalt portions of the following streets:

Winthrop, Charles, LaGrande, Verona, Pleasant, Church, North Main, Central, Butler, Forest, Pine, Walnut, Fairfield, Tulane Circle, Highland, and will widen the following 9-ft. asphalt streets to 16 ft.: Lake, Main, Laurel, Rest;

Will surface following streets with clay: Palmetto, Highlands, Withrop, Thomas, Charles, LaGrande, Glenwood, Prospect, DeSoto, Anoka, Canfield, Bell, State, Verona, Castle and Lotela. Will expend \$180,000. Address Engr. John Hood.

Fla., Bartow—Polk County will improve roads; will vote in Oct. on bond issue.

Fla., Clearwater—Pinellas County plans improving roads and bridges; will vote Sept. 11 on \$252,000 bond issue.

Fla., Deland—Volusia County let contracts road and bridge work totaling approximately \$360,000; James Y. Wilson, Jacksonville, culverts, bridges and rock base of roads; George Abbott, New Smyrna, laying of Coquina rock, compacted on top of present shell.

Fla., Jacksonville—City Comsn. will receive bids until September 10 for furnishing all material and laying approximately 4086 sq. yds. concrete walks in Memorial Park. Plans at office of City Engr., Engr. Building, Main and Orange Sts., Jacksonville, Fla.

Fla., Miami—Details under Land Developments.

Fla., Ocala—Marion County will receive bids until August 25 for building of the road from Waldron bridge to Eureka, special road district No. 1. Address T. D. Lancaster, Clerk, Marion County Courthouse, Ocala.

Fla., Pensacola—Escambia County Commrs. will receive bids until August 28 for an 18-ft. reinforced concrete paving project as follows: The building of County Project No. 7, on the Pensacola-Flomaton road, beginning at the South side of Canoe Creek hill and extending north 3.08 mi. to connect with County Paving Project No. 5; the completion of County Project No. 5. Address Jas. MacGibbon, Clerk, Circuit Court, Pensacola.

Fla., St. Petersburg—City plans widening First street north from Central ave. to Second ave.; will receive bids in near future. Address The Mayor.

Fla., Sanford—City will receive bids until September 10 for grading, draining and paving 61,570 sq. yds. following streets: Commercial, French, Park, Sixth, Seventh, Sanford, West First, Tenth, Ninth and Cypress. W. B. Williams, City Manager.

Fla., Tallahassee—City Comsn. let contract for paving city streets to Hutton Engineering and Contracting Co., Savannah, Ga., at \$188,913.90. (Lately noted.)

Fla., Tampa—Details under Land Developments.

Ky., Calhoun—McLean County plans improving roads; voted \$350,000 bond issue. Address County Commrs.

Ky., Cattlesburg—Boyd County will receive bids for 80 ft. steel bridge across East Fork on the Big Sandy road. County Judge J. G. Rucker.

Ky., Frankfort—State Highway Dept. awarded contracts on 25 road projects as listed in issue of August 2; rejected bid of Breslin and Durrett, Louisville, for Shelby county, State Project 17 C.

Ky., Frankfort—State Highway Dept., will receive bids until September 26 for 8 road projects as follows: Owen County, State Project, No. 59, Section A, 14.421 mi. Owenton-Carrollton road, beginning at Sanfords Pond junction with Owenton-Sparta, and ending at south end of bridge over Eagle Creek

at Wortsville; river gravel type B, water-bound or water macadam surface treated, 14 ft. wide.

Bath County, State Project, No. 47, Sec. 4, Federal Aid Project No. 99, 6.297 mi. Owingsville-Mt. Sterling Road (Midland Trail) beginning near Montgomery County line and ending at W. Corporation limits of Owingsville, rock asphalt on napped limestone base, rock asphalt on concrete base or reinforced concrete, 18 ft. wide;

Letcher County, State Project No. 4, Section A., 5.067 mi. Whitesburg-Hazard road beginning at Sand Lick Gap (end of old state aid road) and ending near mouth of Garner Creek, grade and drain 24 ft. wide on fills and 28 ft. wide in cuts;

Bell County, State Project No. 6, Section A, 11.509 mi. Pineville-Harlan road beginning at north end of bridge over Cumberland river at Page and ending at Harland County line, grade and drain 24 ft. wide on fills and 28 ft. wide in cuts;

McCreary County, State Project No. 25, Sec. D, 14.570 mi. Whitley City-Somerset road beginning approximately one-half mi. south of Whitley City and ending at Pulaski County line, bituminous macadam, water-bound macadam or waterbound macadam surface treated, 16 ft. wide and 20 ft. wide;

Hancock County, State Project No. 8, Sec. D, Federal Aid Project No. 46, Sec. 0, 11 mi. Louisville-Paducah road beginning at Indian Lake to east corporate limits of Hawesville, west corporate limits of Hawesville to east corporate limits of Lewisport; bank gravel unrolled or waterbound macadam or waterbound macadam surface treated, 16 ft. wide;

Crittenden-Dalwell counties, State Project No. 10, Section A, .333 mi., Marion-Princeton road, grading approaches to concrete bridge over Livingston Creek; Harrison County, State Project No. 58½, Sec. B., maintenance of 10.7 mi. Georgetown-Cynthiana road, beginning at the Scott County line and ending at city limits of Cynthiana, scarifying and reshaping, construction necessary drainage structures, surfacing road to a width 14 ft. with waterbound macadam and surface treatment. Jos. S. Boggs, State Highway Engr., Frankfort, Ky.

Ky., Whitesburg—City plans street improvements; will expend \$50,000; Address City Clerk.

Louisiana — Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La., received low bid from Spencer Brothers, for building 9.555 mi. highway between Minden and Shreveport, Federal Aid Project 116, Section A, Webster Parish at \$54,389.35.

Louisiana — Louisiana Highway Comsn., Raymond Bldg., Baton Rouge, La., received low bids on 3 road projects as follows:

Federal Aid No. 43, Sec. B, Calcasieu parish, 3.328 Vinton-Orange Highway, Banta and Mutersbaugh, Lake Charles, La., \$28,938.63; State Project No. 350A and B, Ascension parish, 6.93 mi. Walker-Dutch-town highway, Banta and Mutersbaugh, Lake Charles, La., \$26,984.48.

La., Lafayette—City plans road improvements; will vote September 18 on \$135,000 improvement bonds. Address The Mayor.

La., Monroe—Ouachita parish will receive bids until September 12 for furnishing materials, equipment, tools and labor for the building of gravel surface road at Swartz. R. O. Morrison, Parish Engr., and Chas. W. Phillips, Pres. Police Jury, Monroe.

La., Ruston—City let contract to C. W. James Construction Co., Shreveport, La. at \$65,956.30 for paving 16,295 sq. yds. pavement with asphaltic concrete, curbs, gutter and storm sewers.

La., Westwego—Town received low bid from the Gulf Construction Co., Opelousas, La. at \$1.78 sq. yd. for laying of concrete sidewalk.

Md., Baltimore—City will receive bids until August 29 to grade, curb and pave with sheet asphalt on concrete base and cement concrete streets listed in contracts No. 242 NA (14,000 sq. yds.) and 243 NA (22,000 sq. yds.). Howard W. Jackson, Mayor and Stuart Purcell, Chief Engr.

Md., Baltimore—City let contract to A. C. Knight, at \$12,458 to repair cobbled streets.

Miss., Biloxi—Harrison County let contract to J. F. Morgan Paving Co., Birmingham, Ala., at \$52,296.70 for building 1.75 mi. beach highway from Biloxi to a point near the Beauvoir soldiers' home.

Miss., Gulfport—Harrison County will receive bids until September 6 for surfacing 3 mi. of county highways, including section of the Pass Christian road between Biloxi and Gulfport, the Beach road and the North and South Road (Dixie Highway); approximately 25,000 sq. yds. asphalt treated surfacing with gravel; estimated cost \$30,000. C. I. Pigford, Supervisor, Gulfport, Miss.

Miss., Verona—Town let contract to Mills Engineering Co., McComb Miss. for building of 3.7 mi. 3 ft. sidewalks.

Miss., Vicksburg—Warren County plans improving roads and bridges; will vote Oct. 9 on \$502,000 bonds.

Mo., Bethany—City will receive bids until August 27 to pave, grade and curb Twentieth st. with concrete. Address City Clerk Oscar Stratton.

Mo., Carthage—City plans paving with asphalt in business district. Address City Engr. E. S. Glenn.

Mo., Excelsior Springs—Missouri Highway Comsn. will build an 18 ft. paved street from the end of the county highway at the city limits to the Wabash crossing at St. Louis street. Address Missouri Highway Comsn., Jefferson City, Mo.

Mo., Jefferson City—Missouri Highway Comsn. plans 5 road projects as follows: Bates County, 3.593 mi. 34 ft. state road from Butler to Rich Hill, Federal Aid Project No. 167 F, Route 1; Howard County, 3 sections, State road from E. Louis to Kansas City, 3.456 mi. Federal Aid Project No. 235 A, Route 2; 3.798 mi. Federal Aid Project 335 B, Route 2; 3.798 mi. Federal Aid Project No. 235 C, Route 2; St. Louis County, 2.168 mi. State road from St. Louis to St. Clair, Federal Aid Project 225 A. B. H. Piepmeyer, Chief Engr., Jefferson City, Mo.

Mo., Kansas City—Board of Public Works let contract to Halpin-Boyle Construction Co., Kansas City, Mo., for repaving the Sixth St. traffic way from Broadway to Grand Ave., at \$6.96 sq. yd.

Mo., Richmond Heights, P. O. St. Louis—Details under Sewer Construction.

Mo., St. Louis—City received low bids on street paving as follows:

Trinidad Asphalt Co., St. Louis, Mo., Kingsbury Ave. from Clara to DeBaliviere Aves., \$22,619.75; Dewey Ave. from Bingham to Meramec St., \$15,604.25; Garrison from St. Louis Ave. to Natural Bridge road, \$30,836.05; Bridges Asphalt Co., Lucas Ave. from Fourteenth St. to Leffingwell Ave., \$76,248.50; Central Paving and Construction Co., Chicago, Ill., Loughborough Ave. from Broadway to Virginia Ave., \$29,929.50; Channing Ave. from Laclede Ave. to Lindell boulevard, \$13,147.50; Granite Bituminous Co., St. Louis, Mo., Palm St. from Glasgow Ave. to Grand Boulevard, \$9990; James E. Perkinson; Quincy St. from Gravois to Brunswick Ave., \$22,984.

Tex., Del Rio—Val Verde County plans building 3 mi. State Highway No. 12, west from Comstock, to be reinforced with gravel, estimated cost \$16,500; G. M. Jowers, County Engr. and R. T. Hummcutt, County Judge.

N. C., Nantahala—Township plans improving end of Andrews-Aquone-Franklin Highway; will vote in near future on \$20,000 bonds. Address R. L. Barnett, Aquone, N. C.

N. C., Winston-Salem—Details under Land Development.

Okla., Claremore—Rogers County plans building road to connect with the paved road to the Tulsa County line near Catossa to connect with other improved roads that will radiate in five other directions out of Claremore; will vote September 8 on \$650,000 bond issue.

S. C., Aiken—Aiken County will receive bids until August 30 for the building of 8,239 mi. State Route No. 39 beginning at Survey Station 1108-87A end of Project No. 182B and ending at Survey Station 1544-55 near Monetta; 20,273 cu. yds. sand and clay surfacing. Address County Commrs.

S. C., Camden—Details under Sewer Construction.

S. C., Dillon—Dillon County will receive bids until August 31 for the building of 6.928 mi. State Route No. 23 between the City limits of Dillon and the North Carolina line; 16,895 cu. yds. sand clay surfacing, 20,311 lbs. steel reinforced in drainage structures. Address Board of County Commrs.

S. C., Waltersboro—Colleton County received low bids on 2 road projects as follows: State Route No. 30, Section A, from Waltersboro to Yemassee, 10,382 mi., G. Frank Bamberg, Bamberg, at \$56,333.49; Section B from Section A to Collins Cross Bridge, 5.928 mi., G. Frank Bamberg, Bamberg, at \$37,425.03.

Tennessee—State Highway Dept., Nashville, Tenn., let contract to Southern Construction Co., Harriman, Tenn. at \$13,132.50 per mi. for building 8.6 mi. bituminous highway between the Hamblen county line and New Market in Jefferson County, State Project No. 128.

Tennessee—State Highway Dept., Nashville, Tenn., let contracts for 5 road projects as follows: Federal Aid Project No. 94, Benton County, 7.99 mi. chart surfaced highway between Camden and the Carroll County line, Little and Dean, Memphis, at approximately \$154,570.44; Federal Aid Project No. 96, Bedford County, 11.02 mi. bituminous macadam roadway, lying between Shelbyville and the Rutherford County line, Boyd Williams, Murfreesboro, at approximately \$222,257.69.

State Project No. 115, Lewis County, 7.53 mi. chert surfaced highway lying between Hohenwald and the Perry County line, C. and G. Construction Co. at approximately \$57,161.26.

State Project No. 126, Sumner County, 10.78 mi. rock asphalt surfaced highway between Gallatin and Bethpage, Rhodes-Carr Co., Nashville, at approximately \$162,074.17; State Project No. 127, Sumner County, 12.5 mi. gravel surfaced highway between Bethpage and the Kentucky state line, S. W. Brown at approximately \$111,149.61.

Tenn., Knoxville—Knox county let contract for reconditioning 4 mi. Lowe's Ferry pike to Ralph Oliver at \$12,192.02.

Tenn., Rockwood—City will receive bids until August 24 for approximately 40,000 sq. yds. hard surface pavement. Address City Engr. or Board of Commrs.

Tex., Alpine—Brewster county plans build-

ing 15.7 mi. State Highway No. 12 with gravel and caliche from Alpine to Altorda estimated cost approximately \$88,635; A. L. White, County Engr. and M. S. Burke County Judge, Alpine, Tex.

Tex., Angleton—Brazoria county plans building 6.6 mi. shell surfaced road on State Highway No. 19 A in Road District No. 16; estimated cost approximately \$80,000. H. W. Munson, Engr., Road District No. 16 and J. T. Loggins, County Judge, Angleton, Tex.

Tex., Austin—Travis county will receive bids until Sept. 11 for building of 7.92 mi. Fredericksburg road from near Oak Hill to the Hays County line and constructing necessary drainage structures; plans at office of State Highway Dept., Austin, Tex., and O. Leonard, County Engr., Austin, Tex.

Tex., Brownville—Cameron County plans building 20.8 mi. concrete pavement on State Highway No. 12; U. S. District Engr., Fort Worth approved plans calling for \$200,000 addition aid. W. O. Washington, County Engr. and Oscar C. Dancy, County Judge, Brownville, Tex.

Tex., Clarksville—Red River County plans building 5.9 mi. State Highway No. 37 from Cuthand Creek to point one mi. east of Bodola; gravel surfacing, reinforced concrete drainage structures; estimated cost \$45,000; J. B. Riemann, County Engr. and Geo. Morrison, County Judge, Clarksville, Tex.

Tex., Corsicana—City will extend street paving; voted \$85,000 bonds. Address the Mayor.

Tex., Daingerfield—Morris County plans building 5.2 mi. State Highway No. 35 from Daingerfield to the Boggy River with gravel; estimated cost, \$26,825; James L. Douglas, Res. Engr. and J. W. Cason, County Judge, Daingerfield, Tex.

Tex., Dallas—Details under Land Developments.

Tex., Dallas—Dallas County will receive bids until September 10 for laying 2500 lin. ft. concrete pavement on Belt Line Road No. 3, in 3 sections of varying length; Nagle, Witt and Rollins, District Engrs., Courthouse, Tex.; Chas E. Gross, County Auditor.

Tex., Dallas—Dallas County will receive bids until September 17 for building Richardson Road from Dallas city limits to Collin County line; Nagle, Witt and Rollins, District Engrs., Courthouse, Dallas; Chas. E. Gross, County Auditor.

Tex., Dallas—Dallas County is receiving bids for the building of 12 mi. of concrete road and construction of several bridges in the Richardson community; estimated cost \$500,000; Address County Commrs.

Tex., Decatur—Wise County will receive bids until Sept. 11 for building 10.3 mi. highway from Chico to Montague County line, Project No. 2; 13,500 cu. yds. gravel surfacing, 32,000 lbs. structural steel. S. M. Ward, County Judge, H. R. Smith, County Engr., Decatur.

Tex., Fairfield—Freestone County plans building system of highways and bridge between Anderson and Freestone County, contemplates bond issue of \$1,000,000. Address John F. Wallace, Chmn. Freestone County Good Roads Com. Teague, Tex.

Tex., Fort Worth—City let contracts for paving Lee Ave. from Fifteenth to Central, Cherry St. from Texas to North and Myrtle Ave. from Eighth to Seventh; also will receive bids for paving Terrell Ave., from Evans to Missouri, West End from Florence to Penn St., Green Ave. from Forest Park Boulevard to Gibson and Belmont from Park to Eighteenth.

Tex., Hemphill—Sabine County plans addition highway improvements; voted \$117,000 bond issue; W. A. French, County Engr., San Augustine and W. H. Davidson, County Judge, County Judge, Hemphill, Tex.

Tex., Hemphill—Sabine county building 8.4 mi. gravel surfaced road on State Highway No. 8 from the Jasper County line to a point one mi. north of Pineland; estimated cost approximately \$60,000. W. A. French, County Engr., San Augustine and W. H. Davidson, County Judge, Hemphill, Tex.

Tex., Hillsboro—Hill County plans building 10.5 mi. State Highway No. 2-E from intersection of State Highway No. 2 to the Johnson County line, gravel surfacing; estimated cost \$124,850; Guy W. Johnson, Engr. in Charge and W. L. Way, County Judge, Hillsboro, Tex.

Tex., La Grange—Fayette County plans building 12.9 mi. 18 ft. gravel road on State Highway No. 3-B; U. S. District Engr. Fort Worth approved plans calling for \$36,750 additional aid. Capt. A. Schlafla, County Engr. and J. P. Ehlinger, County Judge, La Grange, Tex.

Tex., Liberty—Liberty County plans building 34.54 mi. of the Houston-Beaumont Highway; U. S. District Engr., Fort Worth approved plans; additional Federal Aid \$127,128; W. C. Young, County Engr., Dayton and C. R. Wilson, County Judge, Liberty, Tex.

Tex., Lufkin—Angelina County plans building 15.04 mi. 16-ft. gravel bituminous surfaced road on State Highway No. 37, Federal Aid Project No. 353, from Lufkin to the Cherokee County line; estimated cost \$187,900; U. S. District Engr., Fort Worth, approved plans; G. R. Abney, County Engr. and J. T. Maroney, County Judge, Lufkin, Tex.

Tex., McKinney—Collin County will receive bids until September 11 for building with gravel 5.04 mi. of the McKinney-Blue Ridge pike in Road District No. 4; T. O. Murray, County Judge and F. W. Cawthorne, County Engr., McKinney, Tex.

Tex., Madisonville—Madison County plans building State Highway No. 21 and Highway No. 32-A; will vote in near future on \$200,000 bond issue. T. F. Ferguson, County Judge.

Tex., Marlin—Falls County plans building 19 mi. 18-ft. gravel road on State Highway No. 44, Federal Aid Project No. 331 between Chilton and the Milam County line; estimated cost \$320,298; Federal Aid \$160,000; Sec. of Agriculture, U. S. Bureau of Public Roads, Washington, D. C., approved plans; J. P. Wehring, County Engr., Lott, Tex. and Walter S. Hunnicutt, County Judge, Marlin, Tex.

Tex., Mexia—City plans paving; voted \$50,000 bonds. Address The Mayor.

Tex., Nacogdoches—Town let contract to Panhandle Construction Co., Lubbock, Tex., for laying 17,000 sq. yds. brick pavement with asphalt filler in main section of town. J. L. Forsgard, City Engr., Nacogdoches, Tex.

Tex., Orange—Orange County will receive bids until Sept. 10 for dredging, grading, surfacing and building timber structures on Orange-Port Arthur Road. Address County Engr., Orange, and A. H. Coale, County Clk., Orange.

Tex., Paris—Lamar County plans building 4.05 mi. 16-ft. concrete pavement on State Highway No. 19 in Lamar County; estimated cost \$105,615.55; Federal Aid \$52,807.77; Chief Engr., U. S. Bureau of Public Roads, Washington, D. C., approved plans; W. M. Fooshee, County Engr., and W. Dewey Lawrence, County Judge, Paris, Tex.

Tex., Paris—Lamar County plans building 1.59 mi. 18-ft. concrete pavement on the Paris-Blossom Highway; estimated cost \$46,

845; Chief Engr., U. S. Bureau of Public Roads, Washington, D. C., approved plans; W. M. Fooshee, County Engr., and W. Dewey Lawrence, County Judge, Paris, Tex.

Tex., San Antonio—Bexar County plans building 8.37 mi. State Highway No. 2; State Highway Comsn. granted \$10,063. Federal Aid and \$5031 State Aid. A. C. Pancoast, County Engr. and Augustus McCloskey, County Judge, San Antonio.

Tex., San Augustine—San Augustine County will improve roads; will vote August 25 on \$50,000 bond issue. J. T. Miller, Judge.

Tex., Seguin—Gadude County plans building west end section of State Highway No. 3; State Highway Comsn. granted \$8029 Aid. S. C. McCarty, County Engr. and J. B. Williams, County Judge, Seguin, Tex.

Tex., Sierra Blanca—Hudspeth County plans building 9 mi. 18 ft. gravel road, State Highway No. 1; estimated cost approximated \$36,000; J. W. Carter, Engr., Courthouse, El Paso, Tex. and J. M. Walling, County Judge.

Tex., Sinton—San Patricio County plans building 8.58 mi. of Arkansas-Gregory Highway; estimated cost \$72,520; F. M. Percival, County Engr., Rockport, Tex. J. O. Houls, County Judge, Sinton, Tex.

Tex., Sonora—Sutton County will receive bids until September 11 for grading and constructing drainage structures on 21.29 mi. road and grading, gravel surfacing and constructing drainage structures on 1.4 mi. 16-ft. road, State Highway No. 4, Federal Aid Project 379; 215,280 lbs. reinforcing steel, gravel to be furnished by county.

Tex., Sonora—State Highway Comsn., Austin, Tex. granted \$175,000 aid to Sutton county for building of State Highway No. 4 and 27. A. Johnson, County Judge, Sonora, Tex.

Tex., Temple—City let contract to Panhandle Construction Co., Lubbock, Tex. at \$27,000 for street paving with vitrified brick and reinforced concrete.

Tex., Weatherford—City contemplates paving 2 mi. of Bank head highway through city. V. P. Craven, Secy., Chamber of Commerce.

Va., Norfolk—City will receive bids until August 24 for paving with concrete or asphalt, 16 or 18 ft. wide, street extending from Park Ave. to the Broad creek road, approximately 2000 sq. yds.; Chas. E. Ashburner, City Manager.

Va., Norton—Details under Land Developments.

Va., Surry—Surry County receives bids August 23 for construction of Wall's bridge over Blackwater river. S. B. Barham, Jr., Clk. County Court, and C. W. Yancey, Deputy Clerk.

W. Va., Barboursville—Village will receive bids until September 15 for grading, drainage and paving of Water st. from Main to McClung sts. and McClung st. from Water to Maple with slag and limestone. T. W. Peyton, Mayor.

W. Va., Bluefield—City let contract to The Mur-Mun Co. and Rusenheim and Pemberton at \$120,000 for resurfacing brick pavements, sheet asphalt and bituminous concrete streets; 18,000 sq. yds. resurfacing, 12,000 sq. yds. new paving. Clarence E. Ridley, City Manager.

W. Va., Charleston—City will receive bids until August 27 for grading, curbing, paving and otherwise improving Ruffner Ave. and Cemetery road; B. A. Wise, City Manager.

W. Va., Clarksburg—Harrison County received low bids on 2 road projects; 2 mi. concrete Robinson's run road, Ferguson

Brothers, at \$63,840; 4000 ft. hard surfacing on Norwood road, E. J. Kersting, \$27,413.25.

W. Va., Clarksburg—City council let contracts for paving following streets; Fairmont and Clarksburg pike Jackson street Oak street to Paul S. Horner Co., Clarksburg at \$29,621.

Pigke street from undergrade crossing to corporate line, Thomas Keenan, Clarksburg at \$16,662.45; Hart street, H. M. Smith, Clarksburg at \$3993.50; North Fourteenth street, Nicholson and Duty, Clarksburg, at \$6406.50; North Sixteenth street, Goff to Henderson to W. F. Allen, Clarksburg.

W. Va., Fairmont—City will receive bids until August 27 for paving with concrete Ridgely Ave. between the Greenhouse and Hawthorne St. Plans at office of City Engr., and Luke G. Arnett, City Clerk.

W. Va., Fayetteville—Fayette County let contract to John E. Dougher and Sons at \$99,500 to pave 3 mi. Lookout-Lansing road in Nuttal district.

W. Va., Huntington—Details under Electric Light and Power Plants.

W. Va., Huntington—The C. and O. Railway Co. let contract to widen the macadamized road at Twenty-second St. to Jerome Schumaker.

W. Va., Princeton—Mercer County will receive bids until August 28 for for grading of 14-ft. road from the Princeton to Glenlynn road at west end of Hale's Gap Tunnel to Willtown; 5000 ft. widening, 2000 ft. new construction. F. B. Ellett, Engr., and Lowrey G. Bowling, Clerk County Court, Princeton.

Sewer Construction

Ark., Blytheville—Details under Road and Street Construction.

D. C., Washington—Major James A. O'Connor, Dist. Officer in Charge of Water Supply System, let contract at \$368,708, to M. A. Long Co., 19 Guilford Ave., Baltimore, Md., for construction of new conduit and auxiliaries at Great Falls and vicinity; contract involves construction of intake chamber or gate house, building 350 ft. of conduit connection and the tunneling of 2400 ft. solid rock.

Fla., Bartow—City will improve sewer system, lately voted \$90,000 bonds; Mr. Timanus of Burns and McDonald Co., Kansas City, Mo., Engr. in charge.

Fla., Lake Worth—City let contract to Bunker & Lockman for sewer work in Dist. No. 1; Geo. W. Fisher, Field Engr.

Fla., Stuart—Details under Water Works.

La., Ruston—Details under Road and Street Construction.

Md., Baltimore—Board of Awards, W. Howard Jackson, Prest. let contract to Consolidated Engineering Co., Calvert Bldg., Baltimore, at \$160,309.66 for 3 sludge digesting tanks 18 ft. deep, 90x114 ft., concrete, and for two drying beds 100x400 ft. at sewage disposal works at Back River; B. L. Crozier, Highways Engr.

Miss., Crystal Springs—City authorized issuance of \$30,000 bonds for completion of sewerage system. Address The Mayor.

Mo., Brookfield—City let contract to C. J. Ryan to construct sewer in Dist. No. 45.

Mo., Carthage—E. S. Glenn, City Engr., submitted plans for construction of sewers in Dist. No. 50.

Mo., Richmond Heights, P. O. St. Louis—City let contract at \$125,000 to R. B. Clarke of Cape Girardeau, Mo., for construction of sewer district at Rankin Boulevard and Pennsylvania Ave. and construction of road on Bellevue Ave.

N. C., Laurinburg—Details under Water Works.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Okla., Sand Springs—City opens bids Aug. 25 to construct approximately 8 miles of sanitary sewers; cost \$125,000; Cloe Tingley, Engrs., Sand Springs; Holway Engineering Co., Const. Engrs., 505 Wright Bldg., Tulsa, Okla.

S. C., Camden—City voted \$10,000 bond for sewer extension and \$85,000 bonds for additional street improvements. Address The Mayor.

S. C., Lamar—Details under Water Works.

Tenn., Milan—City let contract for construction of sewer system; Address The Mayor. (Lately noted.)

Tex., Cameron—City, H. M. Hedley, Mayor Pro-Tem, contemplates construction of sewage disposal plant.

Tex., Clarksville—City, Prentice Wilson, will vote Aug. 27 on \$40,000 bonds for construction of sewerage disposal plant.

Tex., Corsicana—City will extend sewer and water; voted \$15,000 bonds. Address The Mayor.

Va., Norton—Details under Land Developments.

Va., Richmond—Common Council adopted resolution providing for bond issue of \$3,000,000 for rehabilitation of Shockoe Creek Valley; \$180,000 for construction of storm sewer system in West End and \$110,000 for storm sewer in Douglas Court section. (Lately noted.)

Va., Westhampton, R. Sta. Richmond—Dr. B. B. Bagby interested in installation of sewer system to cost about \$100,000.

Telephone Systems

Ala., Troy—Standard Telegraph and Telephone Co. increased capital to \$50,000.

Ky., Evarts—Evarts Harlan Telephone Co., capital \$10,000, incorporated with John T. Gregory, Pres.; C. W. Goff, V.-P.; Mrs. John T. Gregory, Sec.-Treas. (Supercedes recent item.)

La., New Orleans—Western Union Telegraph Co., 195 Broadway, New York, let contract to Stone & Webster, Inc., Box 32, New Orleans, to erect 130x90-ft. office building, steel frame with stone exterior construction, hollow proof tile, flat composition roofing, concrete floors, metal doors, steel sash and trim, wire glass, ventilators; Welles Bosworth, Archt., 527 Fifth Ave., New York. (Previously noted.)

Mo., St. Louis—Southwestern Bell Telephone Co. will expend \$200,000 in addition to the amount included for building purposes in the original plans for the merger of the Bell and Kinlock telephone systems; work includes improvements and additions to following telephone offices, Central, Colfax, Roverside, Victor and Delmar, Forest, Cabany and Grand.

Tex., New Braunfels—Green Valley Telephone Co., incorporated by J. Hubertus, Walter Zipp and others.

W. Va., Huntington—Chesapeake & Potomac Telephone Co., main office Baltimore, Md.; reported to have acquired 80x200 ft. site on Sixth Ave.; will probably erect building; S. S. Flannagan, local Mgr.

Textile Mills

Ala., Alexander City—Alexander City Cotton Mill let contract to Parks-Cramer Co., Charlotte, N. C., for humidifier system and to Grinnell & Co. for heating and sprinkling system, to Park Manufacturing Co., for elevators; J. E. Sirrine & Co., Engrs., Greenville, S. C.

Ark., Pine Bluff—Jefferson Cotton Mills,

capital \$500,000, incorporated by H. C. Couch, Adam J. Robinson, J. E. Boyce; has building and will expend about \$25,000 in improvements; will manufacture 72-in. sheeting.

N. C., Gastonia—M. J. Dougherty Co., 25th. and Washington Ave., Philadelphia, Pa. received contract to install fire protection equipment in the Art Cloth Mills; J. E. Sirrine & Co., Engrs., Greenville, S. C. (Lately noted.)

N. C., High Point—The Mills Cotton Mill, capital \$175,000, incorporated with H. A. Mills, Pres., will erect building 75x400 ft.; brick construction; will install 6000 spindles; electric steam power plant; contract for \$100,000 machinery let to R. C. Biberstein, Charlotte; J. W. Kaneer, Supt. in charge. (Lately noted.)

S. C., Anderson—Anderson Cotton Mills will erect addition to boiler house; Major W. M. Welch, Contr., Greenville; J. E. Sirrine & Co., Engrs., Greenville.

S. C., Chester—Manetta Mills will increase capital stock by \$150,000.

Tenn., Chattanooga—Felix Miller and George Blackwell Smith reported to have acquired the Wardlaw Hosiery Mills, and the building occupied by Atlas Box Co. and entire block of adjoining property extending from McCallie Ave. to Duncan St.; mill will be known as Miller-Smith Hosiery Mills, with Geo. Smith as Pres. and Gen. Mgr.; reported to expend \$1,000,000 in improvements during next eight months; have tentative plans for construction of 6 story uniform structure, four stories will be added to present 2 story building; fireproof; mill construction; total floor space 400,000 sq. ft.; will double present output of 500 doz. prs. hose daily.

Tenn., Lebanon—Lebanon Woolen Mills has plans by D. W. Southgate, 150 Fourth Ave., Nashville, Tenn., for addition to mill.

Tex., Channel City—American Gauze & Cotton So., St. Louis, Mo., reported to have acquired plant of Texas Textile Co.

Tex., Itasca—Itasca Cotton Manufacturing Co., increased capital from \$150,000 to \$175,000.

Tex., Navasota—John H. Stewart interested in establishment of textile mill.

Water Works

Ala., Capitol Heights, P. O. Montgomery—City, J. W. Heustess, Mayor, opens bids Aug. 31 for extension to water works system; approximately 3595 lin. ft. of 4-in., 20,320 lin. ft. of 6-in., and 1065 lin. ft. of 8-in. Class B cast iron water pipe; 26 fire hydrants; together with necessary gate valves, valve boxes and specials; S. E. Washburn, Civil Engr., Hill Bldg., Montgomery, Ala.

Fla., Blountstown—City contemplates installing water works system. Address The Mayor.

Fla., Delray—City voted \$22,000 bonds for purchase of engine, dynamo, and other necessary equipment and extensions for water and light plant; voted \$16,000 bonds for purchase of lands and development of parks. Address The Mayor.

Fla., Stuart—City, E. J. Ricou, Mayor, contemplates voting on bond issue to install water works, electric lights, sewers, concrete retaining wall, along river front.

Fla., Tampa—City, W. Lesey Brown, Mgr. will expend \$1,273,000 on municipal water works; Nicholas S. Hill, Engr., 112 East 19th. St., New York. (Lately noted.)

Ga., Decatur—City will construct filtration plant; J. B. McCrary Engineering Corp., Atlanta, Ga., Contrs.

Ky., Augusta—City will probably vote on bonds for installation of water works system; cost about \$60,000; John W. Hill & Son, Const. Engr.

La., Gibsland—City invites bids on following water works and electric light improvements:

Water mains furnished and laid include 6090 ft. of 6-in., 13410 ft. of 4-in. and 3100 ft. of 2-in. cast iron pipe; 11250 lbs. of specials; 32 hydrants; eight 6-in. ten 4-in. and six 2-in. gate valves and boxes.

Water tower: 50,000 gal. capacity steel water tower with foundation, riser pipe, etc., 75 ft. to balcony, 200 cu. ft. air and 25 h. p. motor.

Air lift system: includes compressor, motor, foot piece, well, piping, etc., two centrifugal pumps with motors, suction and discharge piping, 125 G. P. M.; 50,000 gal. concrete surface reservoir; one 8-in. 225 ft. drilled and cased well.

Water meters.

Power unit: one 100 h. p. oil engine, 75 K. W. direct connected, alternate motor, switchboard; street lighting regulators 7½ K. W., 30 series hoods.

Fire Equipment: 1200 ft. of 2½-in. double lined, double jacketed hose, two 30-in. plug pipes, 2 shut off nozzles, 6 taps; E. T. Archer & Co., Engrs., Merchants Bldg., Shreveport, La.

Miss., Greenwood—City will vote Sept. 4 on \$325,000 bonds for water works extension. Address The Mayor.

N. C., Laurinburg—City voted \$150,000 bonds for water and sewer improvements; Gillett C. White Engineering Co., Durham, N. C., Const. Engr. for construction of reservoir and pumping station. (Lately noted.)

N. C., Oxford—Town Comms. purchased plant owned by Oxford Water System. (Lately noted.)

Okla., Owasso—Town is having plans prepared for complete waterworks system; Holway Engineering Co., Engrs., 505 Wright Bldg., Tulsa, Okla.

Okla., Slick—City voted \$89,000 water improvement bonds. Address The Mayor. (Lately noted.)

Okla., Tulsa—Tulsa County will vote Aug. 31 on forming Water Improvement Dist. No. 1, which comprises land north of Tulsa City limits to Skiatook, including towns of Turley, Sperry and Skiatook; E. B. Greishaber, R. Martin, W. J. Ruyle interested.

S. C., Greenville—Greenville City Water Comsn. employed engineers to make survey for securing water supply from Blue Ridge Mountains; lately voted \$300,000 bonds for additional water supply.

S. C., Lamar—L. C. Munn, Sec.-Treas., Commr. Public Works, will receive bids until Sept. 12 to furnish all material and install complete water and sewer system; Water System will consist of cast iron mains and specials, galvanized service mains, tower and tank, pumping machinery and reservoir.

Sewer System will consist of approximately 19,000 of 8, 10 and 12-in. sewer pipe and septic tank; total amount of expenditure \$65,000; Ryan Engineering Co., Engr., Columbia, S. C.

S. C., Spartanburg—City, R. B. Simms, Supt. of Water Works, let contract to Chicago Bridge & Iron Works, Atlanta and Dallas, to construct steel standpipe at Camp Wadsworth; tank will be 45 ft. above concrete foundation, 32 ft. in diameter, with capacity of 270,000 gals.

Tenn., Knoxville—City Comms. let contract to John R. Hombar Construction Co. to lay water main on Howells Road.

Tex., Austin—City will erect water filtra-

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tion plant and construct incinerator vote Oct. 15 on \$450,000 bonds; W. D. Yett, Mayor. (Lately noted.)

Tex., Corsicana—Details under Sewer Construction.

Tex., Cross Plains—City will vote Sept. 4 on \$25,000 bonds for improving water supply. Address The Mayor.

Tex., Dallas—Details under Land Developments.

Tex., Edgewood—City voted \$40,000 bonds for water works improvements. Address The Mayor.

Tex., Ennis—City will vote Sept. 7 on \$50,000 bonds for extension to water system; will dam Waxahachie Creek and construct 10-in. pipe line to city. Address The Mayor. (Lately noted.)

Tex., Fort Worth—City let contract to A. M. Lockett & Co., New Orleans, La., at \$20,993 to install 12,000,000 gal. capacity pump and electric motor at Mount Holly water plant.

Tex., Sweetwater—City voted \$35,000 bonds for construction of filtration plant. Joe H. Boothe, Mayor.

Va., Norton—Details under Land Developments.

Va., Pennington Gap—City, I. W. Green, Mayor, contemplates installing water system.

Va., Richmond—City will construct pumping station, cost \$99,000; plans by Carneal & Johnson, Richmond; Claiborne & Taylor, Contractors. (Lately noted.)

Woodworking Plants

Fla., Jacksonville—Ridgell Furniture Co., capital \$50,000, incorporated with D. E. Ridgell, Pres.; W. E. Moseley, Sec.

Ky., Frankfort—Kenney Furniture Co., capital \$75,000, incorporated by B. S. Kenney, and others.

Ky., Paducah—Barksdale Brothers Furniture Co., capital \$40,000, incorporated by A. S. Barksdale, G. R. Emerson and others.

N. C., Statesville—Bunch Furniture Co., Inc., A. W. Bunch, Sec.-Treas., will remodel building; invite prices on metal ceiling, oak flooring and passenger elevator; increased capital to \$150,000. (See Machinery Wanted—Elevator (Passenger); Metal Ceiling; Flooring (Oak).)

S. C., Sumter—Sumter Veneer Cabinet Co., capital \$10,000, incorporated with C. P. Osteen, Pres.; F. E. Negles, Sec.-Treas.

FIRE DAMAGE

Ark., Fort Smith—Model Window Glass Co.'s plant; loss \$200,000.

Fla., Sebring—Goethe Lumber Co.'s saw mill; loss not estimated.

Ga., Augusta—Dr. J. Randolph Geffert's residence, 14 miles out on Savannah Road; loss \$10,000.

Ga., Reynolds—Beechwood Band Mill Co.'s saw mill, office, one dwelling and garage, at Beechwood; estimated loss \$50,000.

Ga., Statesboro—Mr. W. R. Outland's residence on Broad St.

Ky., Ashland—Ashland Auto Sales Co.'s building; estimated loss \$80,000.

Ky., Lexington—Oil Products Co.'s plant at 5th and Jefferson Sts.; loss \$40,000.

Ky., Stephensport—Stephensport Mill & Elevator Co.'s flour mill; loss \$20,000.

La., Oakdale—Oakdale Ice & Light Co.'s power plant and ice factory; loss \$40,000.

La., Swartz—J. M. Huber Carbon Co.'s warehouse; loss \$15,000.

Md., Belair—Mrs. John D. Worthington's residence on Conowingo Rd.; loss \$20,000.

Md., Hancock—B. F. Daniel's flour mill, Austin C. Peck's garage, Wm. Hoke's blacksmith shop; total loss \$20,000.

Md., Pocomoke City—Parsonage of Salem Methodist Episcopal Church, occupied by Rev. J. R. Bickling; loss \$10,000.

Md., Poolesville—Buildings owned by Oliver Wooten, Mrs. O. L. Hadscastle, Mrs. Annie Morrison, Carl Fisher, C. J. Norris and Mary Cohlhoss; total loss estimated \$80,000.

Miss., Linn—D. O. Ringold's residence; loss \$12,000.

N. C., Reidsville—William Giles's building on Lindsey and Vance Sts.

S. C., Aiken—Eleanor Sheffield Phelps's dairy barn at Four Springs; loss \$10,700.

S. C., St. Matthews—George Bowman's warehouse.

Tex., Austin—Capital Paper Stock Co.'s building at 210 West 4th St.

Tex., Breckenridge—Brooks Hanlon Co.'s gasoline plant; loss \$50,000.

Tex., Big Sandy—T. J. Kelly's warehouse.

Tex., Dallas—O. P. Jordan's room-house on Cadiz St. and 2 adjoining buildings; total loss \$35,000.

Tex., Edgewood—Postoffice building, W. O. Barentine's store and adjoining structures; loss \$50,000.

Tex., Pottsboro—Alva Allott's restaurant at Pottsboro; loss \$50,000.

Tex., Pottsboro—Clements Garage, loss \$14,000; W. J. Leeper's hardware store, loss \$16,000; and adjoining buildings, estimated loss \$30,000.

Tex., Rusk—Methodist parsonage; address Rev. A. A. Wagnon.

Tex., Sweetwater—Flour mill occupied by Sweetwater Milling Co., owned by N. C. Davis; loss \$75,000.

Va., Bristol—F. H. Henderson's store and dwelling; loss \$20,000.

Va., Reidsville—William Biles's building on Lindsay street; loss \$10,000.

W. Va., Charleston—Frank Coon's Barber shop, James Morris Co.'s 2 houses; loss \$75,000.

W. Va., Elkins—Hardman Building & Supply Co.'s plant; loss \$65,000.

W. Va., New Cumberland—New Cumberland Glass Factory; estimated loss \$30,000.

Damaged by Storm.

Ky., Catlettsburg—United Fuel Gas Co.'s oil cooling tower of the gasoline making station; loss between \$12,000 and \$13,000.

Tex., Houston—Humble Oil Co.'s tank; loss \$200,000.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., Marianna—Ancient Free and Accepted Masons plans to erect temple, Main and Jefferson Sts.

Fla., Gainesville—Ancient Free and Accepted Masons will erect \$125,000 temple.

Fla., Pensacola—Woodmen of the World will erect Woodmen Hall.

Tenn., Pressmen's Home—International Printing Pressmen and Assistants' Union of North America will erect \$50,000 memorial chapel.

Tex., Fort Worth—Young Men's Christian Assn., 707 Anderson Bldg., will erect \$250,000 building, 5th and Lamar Sts.; 4 stories and basement; 100x143 ft.; brick, stone and reinforced concrete; concrete foundation; tar and gravel roof; W. G. Clarkson & Co., Archts., First Nat. Bank Bldg., Fort Worth; Sherman W. Dean, Archt., Bldg. Bureau, International Comm., Y. M. C. A., 347 Madison Ave., New York, has general supervision of work; bids opened Sept. 4. (Lately noted.)

Tex., San Antonio—Ancient Free and Accepted masons will erect \$40,000 Temple, Camden and Richmond Sts.; 2 stories with roof garden; concrete frame and brick; automobile accessory store on first floor; L. Harrington & Co., Archts., San Antonio. (Lately noted.)

Bank and Office

Ga., Macon—Banker's Health & Life Insurance Co., P. L. Hay, Pres., will erect \$25,000 to \$30,000 building, Cotton Ave. and 1st St.; 3 stories; marquees on 2 sides.

Ga., Savannah—Board of Trade, J. G. Butler, Chmn., Trades Comm., will remodel new headquarters at Bull and Broughton Sts.

La., Lockport—Bank of Lockport will alter building; Walter Cook Keenan, Archt., London, Liverpool & Globe Bldg., New Orleans; bids opened Sept. 4.

La., New Orleans—Whitney-Central Bank & Trust Co. will erect \$50,000 branch bank at Camp and Callopie Sts.; 1 story; concrete and stone; Emile Weil, Archt., 926 Whitney-Central Bldg., New Orleans.

Tenn., Memphis—Union & Planters' Bank & Trust Co. will enlarge branch building, Main St. and Beale Ave.

Tex., Dallas—Easterwood-Fielder Realty Co. will erect \$30,000 brick office building, 409-11 S. Akard St.; equipped for cotton offices with skylights, etc.; to be occupied by Wm. B. Starr & Co.

Tex., San Antonio—San Antonio National Bank and San Antonio Loan & Trust Co. will erect bank building, probably W. Commerce St.; 80 to 100 ft. high; 2 stories; steel and brick, cost \$150,000.

W. Va., Welch—John Summers will erect 2-story addition to Merchants & Miners Bank Bldg.; Mahood & Van Dusen, Archts., Bluefield, W. Va. (Architects lately incorrectly noted.)

W. Va., Wellsburg—Wellsburg National Bank, H. M. Rodgers, Cashr., will erect \$100,000 bank building, Charles and 8th Sts.

Churches

Ark., Osceola—First M. E. Church, South J. M. Rhodes, Chmn., Bldg. Comm.; will erect Ionic type building; cost \$60,000; stone to sill line, matt face brick above; stone columns and trim; tile and built-up composition roofs; steel trusses to support balcony in auditorium; basement and rear section for Sunday school; Alsop & Callanan, Archts., Memphis, Tenn.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ky., Ashland—Methodist Episcopal Church, South, South Ashland, Rev. J. A. Wright, Pastor, will erect building; cost \$30,000; brick; Walston & Meade, Archts., Grand Theater Bldg., Ashland; Dr. J. A. Baylor, Consult. Archt., Board of Extension of M. E. Church, South, Louisville. (Lately noted.)

Ky., Catlettsburg—First Baptist Church will erect \$11,000 Sunday school addition; 2 stories; brick. Address The Pastor.

La., New Orleans—First Baptist Church, St. Charles Ave. and Delachaise St., will erect 5-story brick annex; 47x120 ft.; cost \$175,000; Sunday school classrooms and executive offices; Francis J. MacDonnel, Archt., Hibernia Bank Bldg.; C. A. Ramsey, Chmn., Bldg. Comm.

La., New Orleans—St. Catherine of Sienna Church, Father James Furlong, Pastor, will erect building in Crestmont on Metairie Ridge; J. P. O'Connor, Wm. Cannon and others, Comm.

La., Thibodeaux—Wm. R. Burk, Balter Bldg., New Orleans, is preparing plans for \$10,000 frame school and church.

Mo., Independence—Baptist Church, B. M. Houchins, Chmn., Bldg. Comm., Sawyer Bank Bldg., will erect brick Sunday school addition; 70x80 ft.; flat roof; cost without mechanical equipment, \$30,000. Ernest O. Brostrom, Archt., Reliance Bldg., Kansas City; other details not determined. (Lately noted.)

Mo., Kansas City—Presbyterian Church of the Covenant, 16th St. and Swope Parkway, Rev. D. C. Boyd, Pastor, plans to erect \$35,000 stone addition.

N. C., Chapel Hill—Hobart Upjohn, Archt., Aaron G. Alexander, Mgr., Grand Central Terminal, New York, will receive bids until Aug. 24 for erection of 134x50-ft. church, and 92x30-ft. parish house for Chapel of the Cross; stone walls for church, brick for parish house; slate roof; wood floors; low pressure steam heat; separate bids for heating, plumbing and electrical work. (Lately noted to open bids Aug. 13.)

N. C., Durham—Temple Baptist Church will erect \$10,000 additional; 60x60 ft.; 2 stories and basement; probably roof garden. Address The Pastor.

N. C., Winston-Salem—Bethel Methodist Church plans to erect Sunday school addition. Address The Pastor.

Okla., Chickasha—First Baptist Church plans to erect building. Address The Pastor.

Tenn., McMoresville—Methodist Episcopal Church will erect building. Address The Pastor.

Tenn., Memphis—Greenland Heights M. E. Church, South, L. Y. Van Valkenberg, Chmn., Bldg. Comm., will erect Ionic type brick veneer building, E. Parkway near Gaither Ave.; stone trim; 37x86 ft.; auditorium to seat 325 and 5 Sunday school rooms; Jas. L. Gatling, Archt., Memphis.

Tex., Celina—First Presbyterian Church will erect 12,500 building; 1 story; brick. Address The Pastor.

Tex., Cisco—First Presbyterian Church will erect building; bids opened Aug. 15. Address Dr. W. P. Lee, Cisco.

Tex., Lockhart—First Baptist Church plans to erect brick building. Address The Pastor.

Tex., Port Arthur—Trinity Lutheran Church, Rev. F. W. Selditz, Pastor, will erect brick, stone and reinforced concrete church.

Tex., Sweetwater—First Presbyterian Church, Rev. R. B. Hestir, Pastor, will erect 2-story brick building; cost \$25,000; steam heat.

Va., Galax—Methodist Church will erect \$30,000 building. Address The Pastor.

City and County

Ala., Birmingham—Fire Stations—City, Mr. Cloe, member of City Comm., will erect bungalow type fire station in Lakeview district; will also erect bungalow type fire station in Graymont after Jan. 1; probably brick.

Ark., Russellville—City Hall, etc.—City Council plans to erect \$50,000 building; first floor for city offices and fire dept., auditorium on second.

D. C., Washington—Police Headquarters Building—Dist., Capt. John E. Wood, Dist. Asst. Engr. Commr., plans to erect \$50,000 central police headquarters building near District Bldg.

Fla., Clearwater—Jail—Pinellas County is considering adding second story to present jail; Francis J. Kennard, Archt., Tampa. Address County Commrs.

Fa., Milton—Courthouse—Santa Rosa County will erect courthouse. Address County Commrs.

Fla., Orlando—Auditorium—City will probably vote Sept. 4 on \$100,000 bonds to erect auditorium. Address City Comsn. (Lately noted.)

Fla., Sebring—Jail—Highlands County will erect jail; F. H. Trimble, Archt., Orlando.

Fla., Tallahassee—Courthouse—Leon County Commrs. will receive bids until Sept. 10 to alter and erect additions to courthouse; separate bids for heating, plumbing and electrical work; cost \$65,000; 1600 ft. additional floor space; brick and frame; tin and composition roofs; marbleoid, concrete and wood floors; hollow fireproof tile; vault doors; ventilators; additions to present Dunham system of heat; also additions to lighting system; H. J. Klutho, Archt., 401 St. James Bldg., Jacksonville. (Lately noted.)

La., Baton Rouge—City Hall and Library—City will vote Sept. 11 on \$2,000,000 bonds, including \$50,000 for city hall and \$20,000 for library. Address The Mayor.

La., Lafayette—Courthouse—Lafayette Parish, W. A. Montgomery, Pres. Police Jury, will vote Sept. 18 on \$265,000 bonds for 3-story courthouse.

Miss., Tupelo—Home—Lee County Board of Supervisors, S. B. Martin and Eugene Babbs, Purchasing Comm., plans to build county home.

Mo., Columbia—City Hall—City contemplates erecting city hall; plans to call bond issue. Address City Council.

N. C., Oxford—Courthouse and Jail—Granville County will improve courthouse and jail. Address County Commrs.

S. C., Marion—City Hall—City is remodeling city hall; new front. Address The Mayor.

Tenn., Knoxville—Market House-Auditorium—City, Roy H. Beeler, City Atty., will vote Sept. 29 on \$750,000 bonds for combined market house and auditorium for North Knoxville and \$1,000,000 school bonds.

Tex., Eldorado—Courthouse—Schleicher County, W. P. Ford, County Judge, will receive bids until Aug. 28 to erect 3-story courthouse; concrete, steel and brick; plans and specifications from Henry T. Phelps, Archt., Hicks Bldg., San Antonio.

Tex., Franklin—Courthouse—Robertson County, Joe Reid, County Judge, will erect brick, stone and reinforced concrete courthouse; fireproof; 3 stories; 82 x 65 ft.; Hix McCannless, Archt., Ennis.

Tex., Galveston—Auditorium—City Commrs. will receive bids until Sept. 20 to improve city auditorium.

Va., Norfolk—City Hall—City, Chas. E.

Ashburner, City Mgr., will remodel first floor of city hall for additional offices; cost \$16,000.

Va., Prince George—Jail—Prince George County, Frank E. Bain, State Welfare Commr., will erect \$10,000 jail to replace burned structure. Address County Commrs.

Dwellings

Ark., Frenchmen's Bayou—L. R. Clark will erect \$11,000 residence; 2½ stories; brick veneer; 2 baths; concrete porch; Jas. L. Gatling, Archt.; Rogers & Newman, Contrs.; Ideal Heating Co., heating; Mee & Heisler, plumbing fixtures; all Memphis.

Ark., Pine Bluff—Cotton Belt Bank is erecting 2 dwellings at 12th and Oak Sts. and 2 at 17th and Laurel Sts.; Riley Feed Mfg. Co. to furnish interlocking tile and John-Manville roofs.

Fla., Jacksonville—V. Roy Kooker, Graham Bldg., Jacksonville, is erecting \$12,500 residence; owner builds.

Fla., Miami—A. Kuperberg, 201 N. Miami Ave., will erect 50 dwellings near N. W. 7th Ave. and 21st St., Jeffers Park; concrete and stucco; 4 and 5 rooms and bath.

Fla., Miami—Everett H. Pierson is erecting number of double bungalows in Riverside.

Fla., Miami—H. George Fink prepared for three \$16,500 dwellings in Coral Gables; stucco; Cuban tile roofs; carved stone fireplaces, oak floors, cypress ceilings in living rooms screened and open patios, loggias, exterior stairways; ornamental stone, bronze and iron.

Fla., Miami Beach—Carl J. A. Dittman, Miami, will erect residence, N. W. cor. Lennox Ave. and 17th St., Palm View subdivision.

Fla., Miami Beach—J. E. Nelson will erect 2-story Spanish type residence Collins Ave. near 40th St.; hollow tile; fireproof; red Spanish tile roof; tile floors; cost \$20,000.

Fla., Miami Beach—Watson Corp. is erecting 2-story, hollow tile and stucco dwelling, Prairie Ave. and 34th St., Orchard subdivision; Spanish type; 3-story stair tower; tile terrace, screened porch, 2 baths, etc.; cost \$10,000.

Fla., St. Petersburg—Foster Hodges, Pres., Coquina Brick & Block Co., is erecting dwelling, 12th Ave., North; also plans to erect several more.

Ga., Atlanta—Richard N. Fickett, Jr., 226 Lee St., will erect \$25,000 residence, Ponce de Leon Ave., Druid Hills; 11 rooms; brick veneer; slate roof; hardwood floors, concrete in basement; steel sash and trim in basement; vapor system of heat; Robert H. Carpenter, Archt., Atlanta; day labor. (Lately noted.)

Ga., Macon—W. M. Gilleland will erect residence in Ingleside; Happ & Shelverton, Archts., Macon.

Ga., Macon—Lawrence Loh will erect residence on Riverdale Drive; Happ & Shelverton, Archts., Macon.

Ky., Blackey—H. B. Branson will erect 6 dwellings; \$2000 each.

Ky., Louisville—Model Home Construction Co. will erect 6 dwellings on Dales Ave.; total cost \$12,000.

Ky., Louisville—Realty Development Co. will erect 6 dwellings, 1-14 Dales Ave.; cost \$12,000.

Ky., Louisville—Mrs. P. F. Sweeney, 616 W. St. Catherine St., will erect \$10,000 residence at 4614 Southern Parkway.

Ky., Sergeant—Imperial Elkhorn Coal Co. will erect 12 new miners' houses; contract within 2 weeks.

Ky., Whitesburg—Elkhorn-Jellico Coal Co. will build 10 miners' dwellings.

La., New Orleans—Hecker Bros. & Co. will

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erect 10 dwellings on Lowerline, Pine and other streets; slate roofs; total cost \$20,000.

La., New Orleans—A. Larocca, 2301 Soniat St., will erect 3 duplex dwellings, Valmont and Magnolia Sts.; total cost \$12,000.

La., New Orleans—Howard McCaleb will alter and erect additions to residence, 4800 Canal St.; cost \$15,000; Wm. R. Burk, Archt., Balter Bldg., New Orleans.

La., New Orleans—J. B. McMahon, 1124 Dryades St., will erect \$10,000 residence, S. Galvez and Jena Sts.; W. R. Burk, Archt., Balter Bldg., New Orleans; day labor. (Lately noted.)

La., New Orleans—A. L. Bellott will erect residence, West End Blvd. near Taylor Ave.

La., New Orleans—Mrs. J. Miller will erect residence, West End Blvd. near Taylor Ave.

Md., Baltimore—Edw. J. Storck, 1125-26 Munsey Bldg., will erect four 3-story, brick dwellings and 3-story brick apartment house, 3213-21 Guilford Ave.; four 22.2x30 and one 16.6x74 ft.; hot water heat; total cost \$40,000; H. E. Storck, Archt., 1125 Munsey Bldg.; owner builds. (Lately noted.)

Md., Baltimore—Jos. R. Wilson, Jr., 3905 Norfolk Ave., Roland Park, will erect \$10,000 residence and garage, 3809 Dorchester Rd.; 2 stories; 38x58x24 ft.; frame.

Md., Baltimore—Chas. Herbold & Sons, 2768 W. North Ave., will erect 2 frame dwellings, south side Altona Ave., west of Sefton Ave., and 2, N. W. cor. Altona and Sefton Aves.; 2 stories; 26x35.6 ft.; steam heat; total cost \$20,000; F. E. Beall, Archt., 306 St. Paul St., Baltimore; owners build. (Lately noted.)

Md., Baltimore—E. J. Gallagher Realty Co., 919 Munsey Bldg., will erect 4 two-story brick dwellings, 100-6 W. 21st St.; cost \$12,000; 16x30 ft.; steam heat; construction by owner.

Md., Baltimore—M. W. Whitely & Co., 2333 E. Monument St., will erect 3 bungalows on north side of Asbury Ave. near Furley Ave.; 20x28 ft.; total cost \$10,000.

Md., Baltimore—Philip S. Morgan & Co., Inc., 12 E. Lexington St., will erect 3 two-story brick dwellings and garages, west side Allendale Rd., near Windsor Mill Rd.; total cost \$15,000.

Md., Baltimore—James Keelty, 3600 Edmondson Ave., will erect 11 two-story, brick dwellings, 4001-21 W. Franklin St.; total cost \$30,000.

Md., Baltimore—Rochester Home Bldg. Co., 3600 Old York Rd., will erect 26 two-story dwellings, 700-48 McKewin Ave.; and 24 at 703-47 McKewin Ave.; total \$110,000.

Miss., Gulfport—G. B. Dantzler will erect \$40,000 residence, lately noted; 76x81 ft.; 2 stories and roof garden; hollow tile and brick; hardwood and concrete floors; ventilators; ornamental iron and terra cotta; wire glass; heating, \$2500; lighting, \$1500; plans out about Sept. 1. Address Vinson B. Smith, Jr., Archt., Gulfport. (See Machinery Wanted—Ornamental Iron.)

Mo., Mexico—Dr. H. P. Gregory will erect 5 brick dwellings near Missouri Military Academy.

Mo., St. Joseph—Israel Friedburg is erecting \$10,000 residence, 25th and Felix Sts.; 2 stories; brick; 6 rooms, bath and sleeping porch; will erect garage later.

Mo., St. Louis—Majestic Homes Corp. will erect 100 additional dwellings.

Mo., Springfield—President Judge T. F. Frye is remodeling residence, 987 Broadway.

Mo., Willow Springs—Christian Church will erect parsonage. Address The Pastor.

Mo., Webster Groves—Jack Ferguson will erect bungalow on Webster Ave.

N. C., Mt. Airy—Atty. E. C. Bivens purchased 40-acre tract on Westfield Rd., near Inman Place, and plans to erect residence.

S. C., Greenville—J. B. Knight, Sales Mgr., Minter Homes Co., will erect \$10,000 dwelling, 209 W. Earle St.; 2 stories; brick veneer.

Tenn., Knoxville—Mrs. Linzinkia Armstrong will erect residence on Lake St., Charles Rodgers subdivisions; foundation complete.

Tenn., Knoxville—Dr. J. A. Thackston, member of Faculty of University of Tennessee, is erecting brick veneer residence, Cumberland Ave. and 10th St., Charles Ridgers subdivision.

Tenn., Memphis—M. Blockman will erect \$10,000 bungalow, North Parkway near Dunlap St.; 1½ stories; brick and stone; 8 rooms; Jas. L. Gatling, Archt., Memphis.

Tenn., Memphis—E. T. DePass will erect two \$5000 dwellings, 1875 and 1900 Snowden St.; brick veneer; 8 rooms; heating \$600 each, sun parlors; sunken baths.

Tenn., Memphis—J. L. Stewart will erect three 7-room bungalows, South Parkway east of Willett St.; to sell for \$10,000 each.

Tenn., Memphis—M. Weinstein purchased site, Coward Place and East St., and will erect dwelling in near future.

Tenn., Memphis—T. J. Douglas will erect 7-room dwelling, 695 N. McLean St., and 6-room dwelling, 1820 Nelson St.; both frame and stucco; total cost \$11,000; heating \$500 each, garages \$100.

Tex., Austin—Ed Rhodes Wroe will erect \$12,000 residence, Enfield Addition; 1½ stories; brick; Giesecke & Harris, Archts., Littlefield Bldg., Austin.

Tex., Dallas—A. W. Walker will erect \$11,250 residence, 3702 Cragmont St.; 7 rooms; brick veneer.

Tex., Dallas—Jason A. McMillen plans to rebuild residence at 5426 Richmond Ave. destroyed by fire at \$10,000 loss.

Tex., Houston—Alex Thompson will erect \$30,000 frame and brick residence, South Blvd.; 10 rooms.

Tex., Houston—Damon Wells will erect 2 six-room frame dwellings on Hawthorne St. and 1 on Kipling St.; total cost \$12,000.

Tex., Paris—J. E. Osborn will erect \$17,000 brick veneer residence; 2 stories.

Tex., Paris—Dr. Lewis Gooch will erect stucco and hollow tile residence cost \$15,000; 2 stories; 50x45 ft.; tile roof; plaster, oak and tile floors; tile bath; electric wiring; J. Allen Boyle Co., Archt., 502 Melba Theatre Bldg.

Tex., San Antonio—C. W. May will erect 1-story frame residence, W. Summitt Ave.; Morris & Noonan, Archts., San Antonio.

W. Va., Coalwood—Consolidation Coal Co., Fairmont, will erect 53 houses; contract let.

W. Va., Huntington—Eart Burgess, Farr Hotel, will erect one 5-room and one 6-room cottage.

W. Va., Wheeling—Moyers Co., Akron, O., purchased 20-acre tract west of Center Woodward, and will erect 50 dwellings.

Government and State

N. C., Raleigh—Capitol—State, W. N. Everett, Secy., will expend \$30,000 for repairs to capitol.

W. Va., Charleston—Governor's Mansion—State, J. S. Lakin, Pres. Board of Control, will erect \$100,000 residence at Duffy and Kanawha Sts.; Georgian architecture; 72x110 ft.; 2 stories and basement; brick and hollow fireproof tile; marble trim; slate roof; oak and tile floors; metal ceilings;

hardwood floors; interior tile; ventilators; vapor steam heat, \$10,000; conduit system of electric lighting \$2000; Walter F. Martens, Archt., Charleston. (Lately noted.)

Hospitals, Sanitariums, Etc.

D. C., Washington—Veterans Bureau, Director Gen. Hines in charge, will erect recreational hall and therapy building at Mount Alto Hospital; 2 stories; 50x120 ft.; assembly hall, library, games room, 6 class rooms; also plans to erect additional story on garage for housing 17 hospital attendants.

Ga., Atlanta—Dr. W. W. Blackman is Pres. of company to erect \$250,000 Blackman Health Resort on Peachtree Rd.; gymnasium and auditorium in main building; golf and tennis courts; separate residence for Dr. Blackman; E. C. Wachendorff, Archt., 620 Forsyth Bldg., Atlanta.

Ga., Phoenix—Rev. A. V. Pickens is Chmn. of Comm. considering erection of hospital.

Miss., Laurel—Dr. H. G. McCormick rejected bids to erect areoplane-shape addition to hospital; wings 60 ft. front x 105 ft.; stucco over Bishopric Board; concrete, asbestos and wood floors; Johns-Manville roof; wire glass for skylight; ventilators; steam heat; electric lights; Bryant signal call system; Rathbone Debuys, Archt., Hibernia Bank Bldg., New Orleans, La. Address Dr. McCormick. (Lately noted.)

Mo., St. Louis—City, Mr. Cunliff, Director of Public Works, will expend \$200,000 to repair wing of city infirmary, King's Highway and Easton Ave.

N. C., Lexington—Dr. J. A. Smith will remodel and erect third story and additional wing to present house on Byerly property, N. Main St., for hospital; nurses' quarters on first floor; X-ray equipment; separate building for kitchen and dining room at rear, connected to main building by gangway.

Tex., El Paso—Dr. R. B. Homan will erect \$300,000 tubercular sanatorium, Cotton Ave. and Erie St.; 7 stories; 200 rooms; O. H. Thorman, Archt., First Nat. Bank Bldg., El Paso.

Tex., Houston—Young Colored Ministers Missionary Baptist Assn., Rev. J. A. Alfred, Pres., plans to erect hospital and home for aged negroes at Mason and Martin Sts.

Tex., Houston—Dr. Wm. Ralston and others will erect \$40,000 brick office and hospital building, Walker Ave. and Caroline Blvd.; 2 stories; equipment \$20,000.

W. Va., Huntington—Huntington State Hospital, Dr. L. V. Guthrie, Supt., will erect female ward adjoining one of present buildings for females and club house containing bowling alleys, pool and billiard tables, library, radio and motion picture rooms; total cost \$200,000; Richard M. Bates, Archt., Huntington; bids opened Sept. 25; garage under construction.

Hotels and Apartments

Ala., Gadsden—Printup Hotel, A. T. Reich, Mgr. will improve hotel; cost \$50,000; banquet hall and ball room; outdoor tea garden; 3 rental offices, barber shop; elevator.

Ark., Malvern—J. R. Jones, proprietor of hotel will remodel the Commercial Hotel; cost \$40,000; 3 stories; running water in each room; elevators; telephones; to be known as Commercial Hotel Company.

Fla., Miami—Mrs. Ida Fishkin will erect hotel in N. E. 17th Terrace; cost \$75,000.

Fla., Miami—Mrs. S. J. McGrit will erect apartment house on N. W. First St.; cost \$16,000.

Fla., Ocala—Carl Eckhardt and associates will organize Marion Improvement Co. and

erect Ramona Hotel; cost \$550,000; 8 stories, basement and roof garden; 100x93 ft.; 150 rooms with bath; fireproof; brick, reinforced concrete and hollow fireproof tile; cafeteria, lobby, barber shop, swimming pool and toilets in basement; dining room 35x60 ft.; main lobby 65x70 ft.; 2 ladies' parlors and balcony on 2nd floor; terra cotta trim. (Lately noted.)

Fla., Plant City—Mrs. W. H. Anderson, Jr., of Winter Haven, Fla., will remodel residence on East Reynolds St., into an apartment house; 2 apartments, 4 rooms each and large porches; Chester C. Carlton, Contr., Plant City.

Fla., St. Petersburg—Mary E. Love will erect hotel at 221 Fifth Ave., north; cost \$30,000; 20 rooms and baths; lounge room; sun parlor.

Fla., Tampa—I. T. Roberts, Birmingham, Ala., will erect hotel; cost \$2,000,000; 450 rooms; tower 185 ft. high will be equipped with search lights; yacht club to cost \$100,000 will be a part of hotel's equipment; M. Leo Elliott, Archt., Tampa.

Fla., Winter Haven—The Haven Hotel. contracts for which were noted Aug. 2, will cost when complete including land, \$530,000, advises H. E. Cochran, The Haven Hotel Co. (Lately noted.)

Ga., Macon—J. R. Odon & Co. will remodel old Napier residence for 4 apartments of 5 and 7 rooms; 55x70 ft.; frame; metal roof; pine floor; day labor. (Lately noted.)

Ky., Bowling Green—Dr. T. O. Helm will erect hotel to be known as Morehead Hotel; cost \$165,000; 110 rooms.

Ky., Harrodsburg—Chamber of Commerce Committee abandons plans for remodeling hotel as lately noted.

Md., Baltimore—Caroline Apartments will erect additional unit; 108x165 ft.; 4 stories; brick; stone trim; slate roof; steam heat; 40 apartments 5 entrances; Theo. Wells Pietsch, Archt., American Bldg., Baltimore; plans ready for estimates about Oct. 1.

Md., Baltimore—Edw. J. Storck, 1125-26 Munsey Bldg., will erect 3-story, brick apartment house, lately noted, 3200 block Guilford Ave.; 16.6x74 ft.; hot water heat; H. E. Storck, Archt., 1125 Munsey Bldg.; owner builds. (See Dwellings.)

Md., Havre de Grace—Morton Newmeyer will erect apartment house.

Mo., Kansas City—Louis Blond and Abe Blond will erect building at 13th and Wyandotte Sts.; cost \$95,000; 142x75 ft.; 250 rooms.

Mo., Kansas City—McCanles-Miller Realty Co., will erect 6 brick 12-apartment buildings on Linwood Terrace and shop, office and garage building on Main St.; 144 apartments; 8 stories; 2 garages; total cost \$1,000,000; Frank D. Brockway, Archt., Kansas City.

Okla., Tulsa—George Ricker will erect apartment building, at 832 South Detroit; cost \$60,000; 3 stories and basement; brick; 45x140 ft.

Tenn., Nashville—Marr & Holman, Stahlman Building; have prepared plans and specifications for hotel at Eighth Ave. and Church St.; cost \$1,300,000; 12 stories; Italian design; steel and reinforced concrete; marble and brick facing; 280 rooms.

Tenn., Nashville—W. T. Holiday, Reid St. will erect apartment house; cost \$10,000; 20 rooms, brick veneered.

Tex., Dallas—R. T. Vivian will erect apartment house at 916-18 Haines St. 10 rooms; brick veneer.

Tex., Marshall—John Keiffer, Mgr. Hotel Marshall, plans erection of a hotel; cost

\$125,000; 4 stories; brick, concrete and steel; 150x85 ft.; 75 rooms.

Tex., Port Arthur—Dr. E. W. Vaughn will build two 16-room apartments to cost \$13,000; one at 902 Tenth St., other at 1042 Tenth St.

Va., Richmond—Alice E. Dooley and Mrs. Josephine Houston will alter old Tally home, 416 W. Franklin St.; cost \$10,000; new heating, electric elevator, additional bath rooms, porch.

W. Va., Fairmount—Deymour McIntire will erect apartment house, at 2nd St. and Albert court; cost \$15,000; 38x58 ft.; 3 stories; brick and tile.

W. Va., Logan—R. G. Hubbard and R. C. Slaughter, of Charleston, and J. B. Straton, of Williamson and others are promoting erection of business lot.

W. Va., Welch—S. C. Chambers, of Chambers Garage will erect building; 30x80 ft.; 2 stories; brick; ground floor to contain 3 apartments.

Miscellaneous

Ala., Birmingham—Club House—Birmingham Athletic Club contemplates erection of club house at 21st. St. and 5th. Ave.; cost \$850,000; 11 stories; seating capacity 3000.

Ala., Tuscaloosa—Dr. S. F. Deal will remodel building on Broad St. and Queen City Ave.; cost between \$10,000 and \$15,000.

Fla., Miami—Club House—Miami Women's Club, Mrs. W. J. Bryan, Chmn. Bldg. Comm., will erect Flagler memorial library and club house; cost \$250,000; fireproof; composition roof; tile floors; metal doors; concrete floors; ventilators August Geiger and E. L. Robertson, Archt., 424 Calumet Bldg., Miami. (Lately noted.)

Fla., Pensacola—Funeral home—Northrup & Wood, T. M. Lloyd, Pres. will erect funeral home on E. Gregory St.; cost \$12,000; 38x80 ft.; brick veneer.

Ga., Lakemont—Club House—Georgia Press Asso., Linton K. Starr, Director, Atlanta, will erect club house.

Mo., Kansas City—Home—Interdenominational Missionary council, J. W. Jenkins, Chmn. Building Comm., will erect \$230,000 building, 63 st. and Swope Parkway; accommodate 125.

Miss., Jackson—Board of Directors of the Mississippi Methodist Orphanage will erect administration building at the institution; 3 stories; brick; fireproof; dining room; kitchen, chapel with capacity 400; dormitory facilities for 300 girls; boy's building; office room, parlor, library, reading rooms, individual bed rooms for working force; ample bath room facilities; corridors; storage rooms; 2-story brick building for boiler room, laundry and central heating plant; H. N. Austin, Archt., Jackson.

Mo., Kansas City—Home—Interdenominational Missionary Council, Mrs. W. L. Abernathy, Pres., will erect \$230,000 home for girls.

N. C., Providence Lake—Club House—Providence Lake Company will erect club house; cost \$250,000; 250x150 ft.; 2 stories and basement; hollow fireproof tile; interior tile roof hardwood floors on ornamental terra cotta; rolling partitions; steel sash and trim; wire glass; 1st and 2nd. concrete basement; special heating apparatus; Electric lights from water power; C. R. Deway, Archt., Central Hotel, Charlotte.

S. C., Greenville—Home—Girls' Protective Bureau, E. Court St., Psyche Webster, Sec., will erect building on Laurens road; frame construction; concrete or brick foundation; 8 bed rooms; 3 sleeping porches; kitchen; 80x50 ft.; frame and masonry; wood shin-

gles; pine floors; plaster board; concrete floors; ventilators; steam heat; Beacham & LeGrand, Archt., Greenville; bids opened Aug. 17. (Lately noted.)

S. C., Greenville—Market-Woman's Bureau of Chamber of Commerce will erect local curb market; 203x30 ft.; 51 stalls; fireproof.

Tex., Denison—Denison Rod & Gun Club to rebuild.

Tex., Fort Worth—Lloyd H. McKee, Pres. of Fort Worth Country Club will erect club house; cost \$100,000.

W. Va., Charleston—Clubhouse—Kanawha Holding, H. R. Stapp, Pres., 812 Kanawha St., will erect 190x63 ft., semi-proof club building; concrete and hardwood floors; tile roof; hollow and interior tile; metal ceilings; ventilators; rolling partitions; vapor system of heat; Louis Lott, Archt., Studio Bldg., 35 E. 1st St., Dayton, O.; plans being revised, will take new bids in month. Address Archt. (Lately noted to open bids July 10.)

W. Va., Morgantown—Clubhouse—Morgantown Country Club will erect club house, tennis court and improve golf course on Star City road; cost \$30,000.

Railway Stations, Sheds, Etc.

Fla., Daytona—Florida East Coast Ry. Co., H. N. Rodenbaugh, Ch. Engr., St. Augustine, Fla., will erect \$100,000 station; Henry Mc-of electric lighting \$2000; Walter F. Martens, Carrel, Archt., St. Augustine, Fla. (Lately noted.)

Fla., Gainesville—Atlantic Coast Line and the Seaboard Air Line Railways, R. H. Burr, Chmn., will erect union station.

Va., Graham—Norfolk & Western Railway, J. E. Crawford, Ch. Engr., Roanoke, Va., will erect passenger station; cost \$40,000; 96x28; brick; slate roof; John P. Pettyjohn & Co., Contrs., Lynchburg, Va. (Lately noted.)

Schools

Ala., Bessemer—Board of Education will erect school and improve others; cost \$500,000.

Ala., Birmingham—Birmingham Southern College, W. H. Stockham, Chmn. of Comm., will erect home for president; 3 stories.

Ala., Birmingham—Board of Education, Dr. N. R. Baker, Supt., will erect 5 schools in Shades Valley and Shades Mountain; cost \$80,000.

Ala., Bridgeport—Board of Education will rebuild Tennessee River institute; S. A. Dunwoody, Contr., South Pittsburgh.

Ala., Fairfield—Fairfield Board of Education, B. B. Baker, Supt., will erect school for negroes in Interurban Heights; 4 rooms.

Ala., Huntsville—Board of Education will enlarge McDonnell School.

Ark., Forrest City—Board of Education will erect school for negroes; to be known as Lincoln Consolidated school; cost \$20,000; brick and stone, 8 class rooms; auditorium; offices; James J. Gatling, Archt., Memphis, Tenn.

D. C., Washington — Board of Education will erect school on U street between 10th and Vermont Aves., N. W.

Fla., Bradenton—Board of Education will erect school at Elwood Park; frame; 24x32.

Fla., Fort Pierce—Fort Pierce and St. Lucie School District will vote Sept. 11 on \$140,000 bonds to erect school building; 12 or 15 rooms. Address Dist. School Trustees. (Lately noted.)

Fla., Gainesville—Board of Control, P. K. Yonge, Chmn., Aragon Hotel, Jacksonville,

will receive bids until Sept. 10 (extended date) to construct auditorium at University of Florida; cost \$100,000; drawings and specifications at office Edwards & Sayward, Archts., 609 Chamber of Commerce, Atlanta, Ga. (Lately noted.)

Fla., Lake Worth—City will erect addition to high school; cost \$20,000; 35x60; 2 stories; tile wall and wood floor joists; wood and cement; built-up roof; plaster board; interior tile; ventilators; bids open about Oct. 1. W. M. Manly King, Archt., West Palm Beach. (Lately noted.)

Fla., St. Petersburg—School District No. 7 voted \$14,000 bonds to erect school. Address District School Trustees.

Fla., Sarasota—Board of Education will erect school for negroes; fireproof; hollow tile and stucco; 2 stories; auditorium seating 800 people; 16 classrooms; rest rooms, supply rooms; offices for faculty; Spanish architecture; T. M. Bryan, Archt., Gainesville, Fla. (Lately noted.)

Fla., Seabreeze—School Dist. No. 1 (Seabreeze and Daytona Beach) will erect graded school at Seabreeze and one at Daytona Beach; both, 6 rooms and auditorium; \$125,000 bonds voted; Geo. P. Johnson, Pres., School Board. (Lately noted.)

Ga., Atlanta—Board of Education will erect high school for girls; cost \$350,000; 3 stories and basement; reinforced concrete and brick; tile tar and gravel roofing; hardwood floors; interior tile; vaults; concrete floors; ventilators; ornamental terra cotta; steel sash and trim; wire glass; plumbing, wiring and heating about \$100,000; Edwards & Sayward, Archts., Atlanta; bids open Sept. 7. (Lately noted.)

Ga., Brookhaven—Board of Education plans to erect primary and high school building; election Sept. 15.

Ga., Hephzibah—Board of Education will erect school buildings at Hephzibah and Monte Sano. Willis Irvin, Lamar Bldg., and Seroggs & Ewing, Empire Bldg., Archts., both Augusta. (Lately noted in part.)

Ga., Macon—Bibb County Board of Education, C. H. Bruce, Supt. will erect high school for boys; accommodate 1500 students; main building 3 stories; 260x160 ft.; 1st floor to contain 10 class rooms, 2 general science laboratories, bicycle room, kitchen, lunch rooms, locker rooms, and janitor's room; 2nd floor to contain administration offices, auditorium to seat 1200 boys, library, teachers' reading room, teachers' rest room, physics laboratory, biology laboratory, 7 class rooms, locker rooms and commercial department; 3rd floor to contain balcony to auditorium, chemistry laboratory, lecture room, 13 class rooms, teachers' rest room and locker room; gymnasium and shop; gymnasium: 112x106 ft.; locker rooms, showers, apparatus rooms, military room; shop; 1st floor to contain electrical shop, welding shop, automobile shop, wood shop, machine shop, sheet metal shop, lecture rooms, exhibit room and 2 instructor's offices; 22x122 ft.; 2nd floor to contain draughting departments with blue print rooms and office for instructors; Curran R. Ellis, Macon, and G. Lloyd Preacher, Augusta, Asso. Archts. (Lately noted.)

Ky., Louisville—Board of Education will erect building at 3628 Virginia Ave.; cost \$43,000.

Ky., Louisville—University of Louisville, Dr. A. Y. Ford, Pres., will not erect buildings for School of Medicine and Dentistry for several years. (Lately noted.)

Ky., Pikeville—Trustees of Pikeville College will receive bids until Aug. 31 for foundation of college and administration building.

La., Baton Rouge—Louisiana State University will erect \$75,000 athletic stadium; steel and concrete; 2 grandstands, 38x70 ft. each; 25 tiers of seats; seat 12,000; Theo. C. Link, Archt., 4th floor Capitol Building, Baton Rouge.

La., Destrahan—St. Charles Parish School Board, Hahnville, will erect a 2-story and basement brick school; plans and specification from William R. Burk, Archt., 411 Balter Bldg., New Orleans.

La., Gueydan—Vermilion Parish School Board, Abbeville, will erect \$45,000 school; Geo. Harnold, Archt., Abbeville.

La., Hahnville—St. Charles Parish School Board, will erect 2-story and basement brick school; plans and specifications from William R. Burk, Archt., 411 Balter Bldg., New Orleans.

La., LeCompte—Rapides Parish School Board, J. W. Bolten, Pres., Alexandria, will erect \$100,000 high school; brick walls; composition roofing; pine floors; low pressure steam heat; electricity; Favrot & Livaudais, Ltd., Archts. (Lately noted.)

La., Monroe—Board of Trustees of the Louisiana Training Institute will erect building; cost \$40,000.

La., Natchitoches—Louisiana State Normal College, R. H. Cooke, Pur. Agt., will install refrigerating plant; also erect building for domestic science department; 2 stories; fireproof; 2nd floor will contain 4 bedrooms and sleeping porch; 1st floor kitchen, dining room, laundry and porches.

La., New Iberia—Eighth Ward District, L. G. Porter, Supt., New Iberia, voted \$150,000 bonds.

La., New Orleans—Our Lady of Good Counsel, Louisiana Ave. and Camp St., will erect school; cost \$80,000; brick; 2 stories; William R. Burk, Archt., Balter Bldg., New Orleans, La.

La., New Roads—Board of Education will erect school building; cost \$85,000; brick; 2 stories; 14 rooms; Wm. R. Burk, Archt., Balter Bldg., New Orleans.

La., Shreveport—Greater Centenary College, Board of Trustees will erect Administration and College Building; 2 stories; 60x80 ft.; brick and stone; Ed. F. Neild, Archt., 1206 Merchants Building; G. & G. Construction Co., lowest bidder, at \$42,906; both Shreveport. (Lately noted.)

Md., Baltimore—Public Improvement Commission, Robert Garrett, Chmn., Garrett Building, will erect Western High School on Buckler-Thomsen Property, Pulaski St., and Elgin Ave; cost \$1,000,000; 40 class rooms; accommodations for 3000; Joseph E. Sperry, Archt., 409 Calvert Bldg. Also selected following architects for other schools: Canton School, Wyatt & Nolting, Archts., 1012-1015 Keyser Bldg.; combination project embracing Hamilton School, Walbrook-Windsor Hills School and Arlington School, Clyde N. Friz, Archt., 2010 Lexington Bldg.; Roland Park School, Edward L. Palmer, Jr., Archt., 513 N. Charles St.; Rognel Heights-Ten Hills School, William Gordon Beecher, Archt., 763 Calvert Bldg.; Irvington School, Howard Sill, Archt., 12 E. Pleasant St.; addition to Pimlico School, 16 classrooms, J. E. Laferty, Archt., 522 N. Charles St.; addition to School No. 70, Warren Avenue, Lucius R. White, Jr., and Robert V. White, Archts., 602 Lexington Bldg.; addition to School No. 13, Patterson Park Avenue and McElderry St., Raymond P. Allen, Archt., 56 Central Savings Bank Bldg., all Baltimore.

Mo., Joplin—Board of Education will remodel 2 story building 421 W. 3rd St. for junior college. (Lately noted.)

Mo., Kansas City—Board of Education will

erect addition to Yeager School; cost \$152,000; playrooms, auditorium, gymnasium, domestic science rooms, 3 classrooms.

Mo., Kansas City—Board of Directors will erect Barstow school; cost \$150,000; 468x225 ft.; English design; brick, stucco and half timber; terrace; amphitheater; gymnasium; dormitory; reception room; first floor for study hall, 2 primary rooms, offices, class rooms, corridor with fireplace; second floor for literary societies, studios, class room, living quarter for teachers; basement for play room, carpenter shop, coat room, dining room, lavatories, kitchen and supply rooms; accommodate 250 girls; Smith, Rea & Lovitt, Archts., Kansas City.

Mo., Westport (Station Kansas City)—Board of Education will erect Junior high school; 4 stories; cafeteria; elevators; 134x198 ft.; Charles A. Smith, Archt., Kansas City.

N. C., Chapel Hill—University of North Carolina will erect gymnasium; 310x110 ft.; seating capacity 4000.

N. C., Fayetteville—Cumberland County Commrs. ordered election Oct. 2 in Cross Creek Township on \$125,000 bonds.

N. C., Linwood—Linwood School District will erect school; cost \$12,500.

N. C., Raleigh—Raleigh Township School Committee, Dr. W. C. Horten, Pres., will erect school; C. Gadston Sayre, Archt., Anderson, S. C., and Raleigh.

N. C., Raleigh—The North Carolina State College of Agriculture and Engineering will erect addition to its textile building; cost \$70,000.

N. C., Scotland Neck—Board of Education will erect school; brick; L. N. Boney, Architect, Wilmington; bids opened Aug. 21. (Lately noted to open bids Aug. 10.)

N. C., Waynesville—Waynesville Veterans' Bureau School will erect several buildings; warehouse, 32x64; shop building, 48x112, frame, monitor type roof, concrete floor, drinking fountains; main brick building to be remodeled; 2nd and 3rd floors to have and implement sheds; hog and poultry 12 or 14 class rooms and laboratories; farm houses; motor vehicle sheds; total cost \$16,000. (Lately noted.)

S. C., Clinton—Presbyterian College of South Carolina, Dr. J. M. Douglas, Pres., will receive bids until Sept. 7 to erect gymnasium; Alfred D. Gilchrist, Archt., Rock Hill.

S. C., Columbia—School Board, D. L. Stevenson, Chmn., will erect school; 4 rooms; frame.

S. C., Gaffney—Board of School Trustees, N. H. Littlejohn, Chmn. will erect athletic amphitheatre; 492x325 ft.; J. Vernon Phillips, Engr. Gaffney.

Tenn., Chattanooga—School Board will improve schoolhouse on southside; 8 class rooms; cafeteria; toilet facilities. (Lately noted.)

Tenn., Henderson—Board of School Trustees, J. M. Fry, Chmn. of building comm., will erect annex to school building; bids opened Aug. 15. (Lately noted.)

Tenn., Huntingdon—Board of Education will erect administration building; 3 buildings in one, present administration building will be remodeled for gymnasium; plans by Dr. F. D. Dreesler.

Tenn., Knoxville—City, Roy H. Beeler, City Atty., will vote Sept. 29 on \$1,000,000 school bonds. (See City and County.)

Tenn., Woodstock—Shelby County School Board will improve Woodstock Training School; erect academic bldg. and dormitories; W. C. Lester, Archt., Memphis.

Tex., Abilene—Simmons College, C. M. Caldwell, Pres. Board of Trustees, will erect \$150,000 dormitory; accommodate 125 men; 3-room suites, consisting of study and 2 single bedrooms with bath. (Lately noted.)

Tex., Briggs—Board of Education will erect \$20,000 school.

Tex., Caddo—Board of Education will erect school.

Tex., College Station—Board of Directors of the Agricultural and Mechanical College of Texas will open bids for construction of Administration building; cost \$100,000; plans and specifications from E. B. LaRoche, Archt., College Station.

Tex., Denton—Board of Regents of Texas State Teachers Colleges, M. O. Flowers, Pres., will receive bids until Aug. 25 at Adolphus Hottel, Dallas, to erect administration building for North Texas Teachers' College; separate bids for plumbing, heating and wiring; plans and specifications from O. H. Page & Bro., Archts., Austin. (Lately noted to receive bids at Galvez Hotel, Galveston.)

Tex., Denton—Board of Trustees of Denton City School, Dr. T. C. Dobbins, Pres., will receive bids until Aug. 30 to erect 1 story, brick school; 10 rooms and auditorium; separate bids for heating, plumbing and wiring; plans and specifications from W. C. Clarkson & Co., Archts., First National Bank Bldg., Fort Worth. (Lately noted.)

Tex., Floydada—Board of Education will erect high school; cost \$75,000; brick and tile; steam heat; Rice Construction Co., Contrs., Amarillo. (Previously noted.)

Tex., Gainesville—City defeated \$100,000 bond issue for erection of 2 ward schools. (Lately noted.)

Tex., Graford—Independent School District, T. P. Rider, Sec., will erect 1-story brick school; bids opened Aug. 15; Graford & Huseman, Archts., 1008 Burn Burnell Bldg., Fort Worth.

Tex., Lubbock—Board of Education is considering erecting high school; cost \$200,000.

Tex., Lubbock—State Board of Public Instruction, S. B. Cowell, Chmn., Locating Committee, Austin, will establish Texas Technological College at Lubbock; cost \$1,000,000.

Tex., Miranda City—Board of Education will erect \$30,000 brick school.

Tex., Netherlands—Board of Education will erect \$100,000 high school.

Tex., Pearsall—Common School District No. 8, of Frio County, are planning to construct school building; cost \$12,000; brick; address County School Supt., Pearsall.

Tex., Plano—Plano Independent School District is planning school building; cost \$65,000. Address Pres. Board of Trustees.

Tex., Rockdale—Board of Education will erect school for negroes; cost \$15,000; 2 stories; frame.

Tex., Rock Springs—Rock Springs Independent School District will erect school building; cost \$45,000.

Tex., San Angelo—School Board will improve school building; cost \$25,000. Address Pres. School Board.

Tex., San Antonio—Board of Education will erect 6-room and auditorium addition to Douglas School; 4 room additions to Grant School, Collins Gardens Schools, Highland Park School; total cost, \$105,849; Shane & Dickey, Contrs.; Open Shop Asso., plumbing; Jud & Ormond, heating, \$5018; Thompson Electric Co., electric work, \$3364; all for Douglas High School; Kirkwood & Wharton, heating and plumbing for Collins

School; Phelps & DeWees, Archts., all San Antonio. (Lately noted.)

Tex., San Jose—Rexar County School Board will erect building; bids opened Aug. 11; Adams & Adams, Archts., Gibbs Bldg., San Antonio.

Tex., Sterling City—School Board will erect school building; cost \$50,000; brick and concrete. (Lately noted.)

Tex., Union Hill—Board of Trustees is receiving bids to erect \$10,000 frame school building.

Va., Bristol—School Board will erect school building on Mary St.; cost \$150,000; brick and concrete; 2 stories and basement; gymnasium; domestic science room; J. Hoge Reynolds, Contr., Bristol.

Va., Rustburg—Campbell County School Board will receive bids until Aug. 20 to erect 3 schools at Lawyer and Lynch Station, in Otter River district and one at High Point in Seneca district; 2 rooms each.

W. Va., Charleston—State Board of Control, J. S. Lakin, Pres., may erect West Virginia Industrial Home for Colored Girls.

W. Va., Fairmont—Board of Education of Fairmont Independent District will erect kindergarten for William R. White School; 1 room.

W. Va., Martinsburg—Board of Education of Arden District, J. H. Shepherd, Pres., will receive bids until Aug. 28 to erect school near Winchester Pike; 4 rooms; brick; plans and specifications from M. E. Gano, Merchants and Farmers Bank; separate bids for excavation and basement; brick work and wood work.

W. Va., Wheeling—Board of Education of Independent School District of Wheeling will establish cafeteria in the girls' high school gymnasium; also plans erection of building for domestic science department.

Stores

Fla., Fort Pierce—Raulerson Grocery Co. will erect building at Second St. and Ave. A; cost \$80,000; 150x100 ft.; 6 stores on 1st floor, offices on 2nd; reinforced concrete and hollow tile; Kiehnel & Elliott, Miami. (Lately noted.)

Ga., Augusta—McElwee & Gerald, 866 Broad St., will remodel and erect addition to building at 912 Broad St.

Ky., Lothair—Lothair Drug Co. will erect building; cost \$10,000; contract let within 2 weeks.

La., New Orleans—W. T. Grant Co., New York, will remodel and construct building at 1019-21 Canal St.; 3 stories; Nathan Kohlman, Archt., Godchaux Bldg., New Orleans.

La., New Orleans—Jacob Bros. will repair store at 807 Canal St.; Chas. Wenar Co., Archts.; Geary-Oakes Co., Contrs., both New Orleans.

Miss., Brookhaven—H. B. Davis and T. M. Young will erect two 2-story brick stores on West Cherokee St.

Miss., Crystal Springs—W. T. Ellis will lease ground floor to mercantile establishments, converting 2nd story into auditorium, bowling alley and roof garden.

Mo., Springfield—Arnold & Beam will erect building at 616 Booneville Ave.; cost \$10,000; brick; 45x80 ft.

N. C., Charlotte—John M. Scott, will rebuild Brockmann building; cost \$125,000; steel and stone; 4 stories and basement; C. C. Hook, Archt., Charlotte.

N. C., Greensboro—Efrds Department Store, E. L. Efrd, Sec., leased building on Elm St.; will remodel; 2 stories; 75x150 ft.

Okla., Enid—Hackney Iron and Steel Company will erect building, 131 E. Cherokee St.; cost \$10,000; 2 stories; brick.

Okla., Enid—Bellis & Huggins will erect building; cost \$10,000; 25x120 ft.; concrete and brick; basement and 1 story; tin roof; wood floors; pipeless furnace; plans by owners; day labor. (Lately noted.)

S. C., Chester—H. L. Schlosburg will receive bids until Sept. 1 to erect store and office building; Alfred D. Gilchrist, Archt., Rock Hill.

S. C., Greenville—C. O. Allen will erect building at East Washington and Spring Sts.; cost \$85,000; fireproof; 3 stories; 60x116 ft.; concrete and brick; J. E. Serrine & Co., Engrs.; Potter & Shackelford, Inc., Contrs.; both Greenville.

Tenn., Chattanooga—National Clothing Store, S. F. Preville, Mgr., will remodel store at 822 Market St.

Tenn., Knoxville—John Shea will erect 1 story addition to building at 208-210 South Gay St.; cost \$15,000.

Tenn., Memphis—Louis Rauch plans to erect 2 two-story brick buildings.

Tenn., Memphis—S. J. Sternberger, 104 S. Main will repair building; \$11,000.

Tenn., Nashville—Horace G. Hill Grocery Company, H. G. Hill, Pres., will erect office and store building; 3 stories; 6 store compartments; 2 floors for offices.

Tex., Corpus Christi—J. L. Tribble will erect 2-story brick building on Mesquite and Peoples St.

Tex., Dallas—D. B. Blaine will erect 3 one-story brick stores, 135-39 Jefferson St.

Tex., Dallas—A. A. Jackson will erect a 2-story building at Elm St. and Pacific Ave.; cost \$35,000; 25x200 ft.; ornamental brick and stucco; Lang & Witchell, Archts., Dallas.

Tex., Dallas—B. Kendall will erect building; 1 story; brick.

Tex., Dallas—John Bounds and H. A. Burger will erect 5 stores at Carroll and Worth Sts., East Dallas; cost \$27,000; 50x167 ft. (Lately noted.)

Tex., Fort Worth—J. N. Brooker will erect building at Calhoun and 13th Sts., cost \$10,000; 1 story; also 2 story building; cost \$20,000.

Tex., Houston—G. C. Street, Jr., will erect store on McKinney St.; cost \$20,000.

Tex., Palestine—G. S. Robinson will erect building; cost \$12,000; 37½x100 ft.; brick; plastered walls; metal ceilings; concrete foundation; Barrett roof, or J-M built-up asbestos roof; concrete floors; electricity; Theo. S. Maffitt, Archt., Palestine; contract let about 2 weeks.

Tex., San Antonio—S. L. Jeffers will erect store and hotel on N. W. corner of Ave. E and 3rd St.; 7 stories; J. J. Gallagher, Contr.; Henry T. Phelps, Archt., both San Antonio.

Tex., San Antonio—Frank G. Newton will erect store at 114 N. Flores St., 84x97 ft.; 2 stories; reinforced concrete; Herbert S. Green, Archt., Alamo Bank Bldg., San Antonio.

W. Va., Charleston—Lory & Son will erect business building.

W. Va., Huntington—West Virginia Hardware & Supply Co., capital \$250,000, C. McD. England, Pres., Lexington, Ky., will erect \$100,000 building Adams Ave. and 19 St. West; 1 story; steel and concrete; 2-story office building; main structure 250x500 ft.; vaults; ventilators; steel sash and trim; wire glass; galvanized corrugated iron roofing; wood flooring; Meanor & Handloser, Archts., Huntington. (Lately noted.)

W. Va., Welch—Wm. Sereno will erect building; 2 stories; stone and brick.

W. Va., Welch—T. A. Lambert will erect addition to store at McDowell St. and Virginia Ave.; brick; 18x65 ft.

Warehouses

Fla., Fort Pierce—Fee & Steward Co., will erect warehouse and sales building.

Ky., Louisville—St. Matthews Produce Exchange will erect \$20,000 warehouse.

N. C., Raleigh—Bonded Warehouse Co., E. C. Hillyer, Prop., is erecting fireproof concrete and steel bonded warehouse; first unit 70x200 ft.; 3 stories; 50,000 sq. ft. floor space; second unit of same size to follow when needed; overhead electric traveling cranes, electric floor trucks, conveyors, etc.

Tenn., Knoxville—Planters' Warehouse,

Inc., will erect warehouse on Jackson Ave.; composition roof; concrete floors; solid brick walls. (Lately noted.)

Tex., Waco—Exporters & Traders Co.'s compress and warehouse in East Waco will rebuild warehouse.

Va., Richmond—Richmond-Fredericksburg & Potomac R. R., W. D. Duke, Gen. Mgr., will erect warehouse at Duncan and Clay Sts., to be used by Atlantic & Pacific Tea Co.; cost \$122,000; 3 stories and basement concrete; irregular shape, 115x181 x56½x190 ft.; reinforced concrete frame; brick panels; slag roofing; Carneal & Johnston, Archts.; Wise Granite & Construction Co., Contr.; both Richmond. (Lately noted.)

W. Va., Huntington—Sterling Oil Products Co., George C. Burns, Gen. Mgr.; will erect warehouse and storage tanks at 31st St.; cost \$150,000.

31.9 ft.; 1 story; reinforced concrete and brick, tile base and stucco walls; cement and tile floors; Barber asphalt or Richardson Viskalt built-up roof over concrete slab; Roy E. Lane, Archt.; Vuillemin & Petzold, Contrs.; both Waco; heating, conduit wiring (fixtures by owner) and tile let separately. (Lately noted.)

Dwellings

Fla., Miami—A. B. MacGowan, Worcester, Mass., will erect \$15,000 residence, lots 7 and 8, block 14, Sunset Lake subdivision; Mead Construction Co., Contr., Miami.

Fla., Miami Beach—Irving A. Collins will erect \$35,000 Spanish type residence, Pine Tree Drive; 4 baths; 2-car garage with servants' quarters; Walter C. DeGarmo, Archt.; Geo. Smallridge, Contr.; both Miami. (Lately noted.)

Fla., Miami Beach—R. M. Davidson, City Engr., will erect \$12,000 Spanish type residence, 1502 Washington Ave.; 2 porches, terraces, 3 baths, garage with servants' quarters above; Spanish tile roof; Hunt Bros. Co., Contr., Miami.

Fla., Miami Beach—John E. Nelson will erect \$14,000 residence, Collins Ave. near Firestone estate; Louis D. Brumm, Archt.; M. D. Sammons, Contr.; both Miami.

Fla., Ocala—J. M. Phillips, Phillips & Walker, will erect \$15,000 dwelling and five \$2000 bungalows; frame; 38x38 ft. and 24x28 ft.; composition roofs; pine floors; Ray & Thomson, Contrs.; Winshall Plumbing Co., lighting; all Ocala. (Lately noted in part.)

Ga., Macon—Mrs. E. H. Lanier will erect \$10,000 brick veneer residence, Ridge Ave., Ingleside; 6 rooms; Bass - Hamlin Co., Contr., Macon.

La., New Orleans—Sam Martina will erect \$15,000 triplex residence, S. Scott and Canal Sts.; Fred Wilmot, Contr., New Orleans.

La., New Orleans—Mutual Bldg. & Homestead Assn. will erect \$12,133 dwelling, Peters Ave. and Willow St.; John M. Werling, Contr., New Orleans.

La., New Orleans—Mrs. T. Driscoll, 2317 Chippewa St., will erect 2-story double residence at Arabella St. between Magnolia and Clara Sts.; cost \$12,000; Edw. DeAlmas, Archt., 1901 S. Arts St.; H. F. & E. W. Oberling, Contrs., 3212 St. Phillip St.; both New Orleans.

La., New Orleans—J. V. Levert Land Co. will erect \$13,000 dwelling; 2 stories; frame; slate roof; wood floors; Paul Andry, Archt., Zeta Bldg.; J. A. Haase, Jr., Contr.; both New Orleans.

La., New Orleans—Harry L. MacPherson, 329 Bermuda St., will erect 2-story double residence at Bienville St. between St. Patrick and Olympia Sts.; cost \$10,000; Edw. DeAlmas, Archt., 1901 S. Arts St.; H. F. & E. W. Oberling, Contrs., 3212 St. Phillip St.; both New Orleans.

La., New Orleans—Fred Oster will erect \$11,040, 2-story double residence at Picheloup Place between Carrollton Ave. and Du Maine Sts.; Edw. DeAlmas, Archt., 1901 S. Arts St.; H. F. & E. W. Oberling, Contrs., 3212 St. Phillip St.; both New Orleans.

La., New Orleans—Jos. Oster will erect \$14,000 residence at City Park and Charlton Aves.; frame and stucco; Edw. DeAlmas, Archt., 1901 S. Arts St.; H. F. & E. W. Oberling, Contrs., 3212 St. Phillip St.; both New Orleans.

Md., Baltimore—Lawrence W. Yakel will erect \$21,500 residence, Bellona and Charles Streets Aves.; 61x24 ft.; hollow tile stuccoed; slate roof; oak and pine floors; hollow fireproof tile; 20x23-ft., frame stuccoed

BUILDING CONTRACTS AWARDED

Association and Fraternal

S. C., Columbia—Salvation Army, W. M. Perry, Chmn., Bldg. Comm., will erect \$20,487 citadel, Lady St. near Main St.; boiler and storage rooms, janitor's quarters, toilets and baths in basement; auditorium and offices on first floor, sleeping quarters on second floor; Lafaye & Lafaye, Archts.; Mechanics Construction Co., Contr.; B. S. Milligan Co., plumbing and heating, \$3614; Cashion-Green Elec. Co., electrical work, \$725; all Columbia. (Lately noted.)

Bank and Office

La., New Orleans—United Cotton Co., 311 Baronne St., will alter adjoining 4-story building; stores on first floor, offices above; oak and tile floors; marble work; electric wiring; Weiss & Dreyfous, Archts., Maison Blanche Bldg.; E. W. Ulrich Co., contr., at \$21,830; both New Orleans.

N. C., Winston-Salem—R. J. Reynolds Realty Co., Box 748, will erect \$30,000 store and office building for negroes; 56x40 ft.; 3 stories and full basement; gravel roof; wood and concrete floors; hollow fireproof tile; metal doors; vault lights; ventilators; vapor system of heat, \$3000; H. Macklin, Archt., Winston-Salem; Southeastern Construction Co., Contr., Charlotte; Peoples Elec. Co., Winston-Salem, electrical work. (Lately noted.)

Tenn., Knoxville—Medical Corp., Dr. L. L. Shelden, Pres., will erect 3 additional stories to Cumberland Club, Clinch Ave. and Walnut St.; cost \$50,000; slate roof; hollow fireproof tile, brick and wood; maple floors; R. F. Graf & Sons, Archts., Arnstein Bldg.; A. H. Whisman, Contr.; both Knoxville; heating, lighting and elevators reserved by owners. (Lately noted.)

Tenn., Nashville—Nashville, Chattanooga & St. Louis Ry., H. McDonald, Ch. Engr., Nashville, will erect 8-story and basement building Broadway and 10th Ave.; cost \$200,000; 50x90 ft., with provision for future extension; reinforced concrete frame faced with brick and terra cotta; maple and terrazzo floors; 4-ply built-up roof over concrete slab; 2-pipe, low pressure vacuum system of heat; electric lights; two 5x6-ft. highspeed passenger elevators; plans by Engineering Dept. of Ry.; Southern Ferro-Concrete Co., Contr., Atlanta, Ga. (Lately noted.)

Tex., Fort Worth—W. S. Realty Co. will remodel building, 7th and Houston Sts., for offices; cost \$12,000; hardwood floors; steel sash and trim; wire glass; Earl T.

Glasgow, Archt.; Butcher & Sweeney, Contrs., 806 Taylor St.; both Fort Worth. (Lately noted.)

Churches

Ark., Eudora—Baptist Church will erect \$200,000 building; W. H. Gard, Contr., Dermott, Ark.

Ga., Atlanta—Druid Hills Presbyterian Church, Highland and Blue Ridge Aves., will erect \$57,000 Sunday school building, Ponce de Leon Ave., near Highland Ave., as first unit of \$100,000 structure; Pringle & Smith, Archts.; Barge-Thompson, Contrs.; both Atlanta. (Lately noted.)

La., New Roads—St. Augustine's R. C. Church will erect \$10,000 building; Wm. R. Burk, Archt., Balter Bldg., New Orleans; Barbay & Haase, Contrs., Baton Rouge.

Md., Baltimore—Ascension Evangelical Lutheran Church, Rev. Arthur G. Nell, Pastor, will erect 2½-story stone building, 30th St. and Hollen Rd.; cost \$25,000; asphalt slate roof; Gothic architecture; limestone trim; F. E. Beall, Archt., 306 St. Paul St.; Adam Kratz, Contr., 118 S. Carrollton Ave.; both Baltimore.

Mo., Parnell—Methodist Church will erect \$12,000 building stucco; auditorium to seat 350; 6 Sunday school rooms; E. R. Ingram Archt., Parnell; W. E. Warren, Contr., Sheridan. (Previously noted.)

N. C., Winston-Salem—Methodist Church will erect \$38,700 building; Hill & Justice, Contrs., Winston-Salem.

Tex., San Antonio—Second Church of Christ, Scientist will erect building, Magnolia and Belknap Sts.; Herbert S. Green, Archt.; Jay Depuy, Contr.; Wright Bros., electrical work; A. H. Shafer, plumbing; all San Antonio. (Previously noted.)

City and County

Mo., St. Joseph—Detention Home—Buchanan County will erect 2-story detention home near county infirmary; Eckel & Aldrich, Archts.; P. P. Buddy, Contr.; both St. Joseph. (Lately noted.)

N. C., Asheville—Barracks—Buncombe County will erect \$30,000 convict barracks; Asheville Foundry Co., contr. for steel at about \$10,000.

Tex., Bastrop—Courthouse—Bastrop County will remodel courthouse; cost \$41,306; C. H. Page & Bro., Archts.; Mr. Schnellling, Contr.; both Austin. (Lately noted.)

Tex., Marlin—City Hall—City, Levi Goodrich, City Engr., will erect \$15,229 addition to city hall and city court building; 31.6x

garage; Theo. Wells Pietsch, Archt., American Bldg.; Willard E. Harn Co., Inc., Contr., 2314 Oak St.; both Baltimore; hot water heat and lighting not in general contract. (Lately noted.)

Tenn., Knoxville—F. H. Snipes will erect \$12,000 residence, Scenic Drive; 36x57 ft.; 2 stories; 10 rooms; brick veneer; slate roof; oak floors; heating, \$2500; Barber & McMurtry, Archts.; A. H. Whisman, Contr.; both Knoxville. (Lately noted.)

Tex., Dallas—H. C. Early will erect 1-story frame residence, Greenland Hills; 34x50 ft.; McWright-Crane Co., Contr., 304 Scollard Bldg., Dallas.

Tex., Dallas—R. P. Vivian will erect 2-story duplex dwelling; 34x46 ft.; brick veneer; E. J. Moffatt, Contr., Box 784, Dallas.

Tex., Denton—W. J. McConnell will erect 2-story residence on W. Hickory St.; brick veneer; H. F. Davidson, Contr., Dallas.

Tex., Elgin—Mrs. W. H. Rivers let contract to erect \$25,000 residence on N. 1st St.

Tex., Fort Worth—C. L. Mobley will erect \$12,000 dwelling; 38x67 ft.; hollow fireproof tile and stucco; concrete, oak and tile floors; mail chutes; ventilators; Wm. C. Meador, Archt.; Mobley & Delany, Contrs., Texas Nat. Bank Bldg.; Texas Heating & Ventilating Co., hot air heat; all Fort Worth.

Tex., Greenville—Jos. Urquhart will erect brick veneer residence, N. King St.; 2 stories and basement; C. Y. Fry, Contr., Greenville.

Tex., San Antonio—Tom E. Hogg will erect \$52,866 residence, Bushnell Place; 2 stories; hollow tile and stucco; Atlee B. & Robt. M. Ayres, Archts.; W. C. Thrailkill, Contr.; both San Antonio. (Lately noted.)

Tex., Sherman—A. E. Marks has contract to erect \$26,000 brick residence, Wood and Lee Sts., Fairview.

Va., Richmond—E. W. Leonard, 2408 North Ave., will erect \$10,700 dwelling at 1509 Wellington Ave.; 40x30x30 ft.; 2 stories; brick; tile roof; hot water heat; wood floors; D. A. Weatherford, Contr., 3008 Third Ave.

W. Va., Iaeger—Sam Polon, Welch, will erect 3 dwellings; 2 stories; frame; 6 rooms and bath; Green & Stowe, Contrs., Welch; Mr. Polon plans to erect 20 to 25 dwellings, probably 8 to 10 to be erected this year.

W. Va., Welch—Joe Memmo will erect 2-story, brick dwelling, Maple Ave. near school; 8 rooms; G. C. Johnson, Contr., Welch; foundation complete.

Government and State

S. C., Spartanburg—Post Office—Treasury Dept., Jas. A. Wetmore, Act. Supervising Archt., Washington, D. C., will erect 1-story, brick, non-fireproof extension, approximately 23 x 46 ft., and extension of present brick driveway at post office; cost \$10,850; Garber & Cissel, Inc., Contr., Bethlehem, Pa. (Lately noted.)

Hospitals, Sanitariums, Etc.

Ark., Little Rock—Missouri Pacific Hospital Assn., M. J. Mohler, Pres., Hospital Board, St. Louis, will erect \$450,000 division hospital on Lincoln Ave.; reinforced concrete, hollow fireproof tile and brick; stone trim; promenade tile roof; marble, terrazzo, concrete and cork tile floors; metal ceilings; metal doors; interior tile; mail chutes; steel sash and trim; wire glass; E. M. Tucker, Archt., care Missouri Pacific R. R., St. Louis; Jas. Stewart & Co., Inc., Contrs., Boatman's Bank Bldg., St. Louis. (Lately noted.)

Ark., Little Rock—City, Ben D. Brickhouse, Mayor, will erect \$30,000 nurses' home at General Hospital; 2 stories; 68x80 ft.; brick veneer; hardwood floors; tile roof; John P. Almand, Archt.; Herman & McCain Construction Co., Contr.; both Little Rock; all sub-contracts let. (Lately noted.)

Tex., Ennis—City, G. C. Sanderson, Sec., will erect brick hospital; cost \$27,500; Hix McCandless, Archt.; Luderdale & Miller, Contrs.; both Ennis; equipment not let. (Previously noted.)

Va., Harrisonburg—Rockingham Memorial Hospital will erect \$17,500 addition; brick; 1-story and basement; 30.6x48 ft.; concrete; hardwood and quarry and cork tile floors; stone foundation; slag roof; interior tile; ornamental terra cotta; dining room and kitchen in basement, colored ward above; Chas. M. Robinson, Archt., Times-Dispatch Bldg., Richmond; W. M. Bucher & Son, Contrs., on cost plus basis; Valley Plumbing & Heating Co., heating; Walter Trobaugh, electrical work; all Harrisonburg. (Lately noted.)

Hotels and Apartments

Fla., Melbourne—Melbourne Building & Investment Co., will erect hotel; cost \$250,000; 100x175 ft.; 4 stories; fireproof; Spanish tile roof; tile floors; steam heat and fireplaces; electric lights; electric elevators; hollow fireproof tile; metal ceilings; interior tile; metal doors; vaults; mail chutes; concrete floors; vault lights; ventilators; ornamental terra cotta; rolling partitions; steel sash and trim; wire glass; Harvey & Clark, Archts., West Palm Beach; Elton Hall, Contr., Melbourne. (Lately noted.)

N. C., Statesville—Henkel Hotel Co., will erect \$75,000 addition to Vance Hotel; 5 stories; brick and joist construction; Barrett roof; first floor marble, others wood; steam heat; Grinnell Co., Providence, R. I.; ballroom and 57 bedrooms; semi-fireproof; pine floors; Lewis H. Asbury, Archt., J. A. Gardner, Contr.; both Charlotte. (Lately noted.)

Okla., Weleetka—S. N. Craig and others will erect hotel; cost \$75,000; 50x140 ft.; 3 stories; brick, stone, concrete and tile; 5-ply built-up asphalt roof; cement and tile floors; wall gas heaters; W. W. Larmour, Wewoka, Archt.; T. E. Sharpnack, Contr., Okmulgee; Ray Farry, Muskogee, brick work; lighting, \$1200; elevators, \$3500; glass work, tile flooring and elevators not let. (Lately noted.)

Tex., Dallas—A. J. Bragg will erect 2 story apartment at 1906-09 Gano St.; A. J. Smith, Contr., 5929 Worth St., Dallas.

Miscellaneous

La., New Orleans—Swimming Pool—New Orleans Country Club will erect swimming pool; cost \$45,000; reinforced concrete; Doullut & Williams, Contrs.; Guerin Engineering Corp., Engrs.; both New Orleans.

Va., Portsmouth—Clubhouse — E. B. Hawks, Pres. of the Portsmouth Country Club, will erect clubhouse; cost \$30,000; Jones Speer Co., Contrs., Portsmouth.

Schools

Fla., St. Petersburg—Board of Education will erect Junior High School at Mirror Lake Drive and 3rd Ave.; cost \$153,000; Victor A. Boeke, Contr., St. Petersburg.

Ga., Arlington—Rowena Consolidated School Trustees will erect 1-story brick school; bids opened June 16; cost \$16,000; 15x60 ft.; brick; compo shingle roof; wood

floors; W. H. Kwilecki, Archt., Bainbridge; H. P. McCowen, Contr., Fitzgerald.

Ky., Princeton—Board of Education will erect high school; cost \$85,000; 80x184 ft.; stone, brick, concrete and wood construction; built up roofing; fireproof corridors, all other floors maple; Webster System Vapor heat, \$68,000, Herbst & Chastaine, Paducah; G. Tandy Smith, 306 Guthrie Bldg., Paducah, Archts.; Blackburn-McChesney, Cartwright, Contrs., Princeton. (Lately noted.)

La., Baton Rouge—Louisiana State University Comm., Dalton Raymond, Chmn., opened bids for mechanical work at College; H. N. Moody, New Orleans, Contr. at \$3000 for electrical work; Fischer Heating Co., Memphis, Tenn., \$8600 for heating; Chambers & Bowers, Hammond and New Orleans, \$42,471 for sewers. (Other contracts lately noted.)

La., Baton Rouge—Louisiana State University and Agricultural College, R. L. Himes, Sec., will erect \$58,000 stock judging pavilion; 60x200 ft.; concrete and brick; asbestos shingle roof; dirt floors; Theo. C. Link, Archt., Box 587, Baton Rouge; J. V. and R. T. Burkes, Contrs., New Orleans. (Lately noted.)

La., Rayville—Ruhland Parish School Board will erect school; brick; Ed. F. Nield, Archt., Shreveport; John W. Baker, Engr., both Winnsboro, La.; A. G. Sims, Contr., Lake Village, Ark.

La., Shreveport—Greater Ceneterary College, Board of Trustees will erect administration and college building; cost \$42,906; 2 stories; 60x80 ft.; brick and stone; Ed. F. Nield, Archt., 1206 Merchants Building; Green & Glassell, Contrs., both Shreveport. (Lately noted.)

Md., Towson—State Board of Education will erect dormitory at State Normal School; cost \$150,000; 2 units, irregular dimensions; 2 stories and attic; accommodate 125; steam heat; slate roof; wood and concrete floors, metal doors; hollow fireproof tile; Smith & May, Archts., 763 Calvery Bldg., C. L. Reeder, Const. Engr., 916 N. Charles St., Consolidated Engineering Co., Contr., Calvert Bldg., all Baltimore. (Lately noted.)

N. C., Denton—Board of Education will erect school for negroes; cost \$21,000. Jewell & Co. Contrs., Sanford, N. C.

N. C., Germantown—Stokes County School Board will erect building; cost \$38,000; 1 story; brick; 10 class rooms; auditorium to seat 750; 100x150 ft.; asbestos and Barret roof; gum floor; hot air heat; Delco lights; W. C. Northrup, Archt., Starbuck Bldg.; Kapp Bros., Co., Contrs.; both Winston-Salem. (Lately noted.)

N. C., Kinston—Caswell Training School, Dr. C. Banks McNairy, Supt., will erect laundry building; H. A. Underwood, Engr., 916 Commercial Bank Bldg., Raleigh; W. P. Rose, Contr., Goldsboro; Mitcham Co., Goldsboro, plumbing; McKenzie Co., Greensboro, heating; Thompson Electric Co., Raleigh, electrical work; R. B. Scott, Kinston, Contr., for re-roofing number of cottages; total cost \$75,000. (Lately noted.)

N. C., Mayodan—Rockingham County, Board of Education, L. N. Hickerson, Supt., Wentworth, N. C., will erect school; cost \$58,000; 15 classrooms; brick; metal roofing; heart pine flooring; 180x54 ft.; low pressure steam; James W. Hopper, Archt., Leaksville, N. C.; Mayodan Lumber Co., Contr., Mayodan. (Lately noted.)

N. C., Vanceboro — Board of Education will erect administration building at Craven Farm Life School; cost between \$25,000 and \$30,000; contract let.

S. C., Lanford Station—Board of Education, will erect high school; J. R. Brownlee, Contrs., Laurens.

S. C., York—Board of Education will erect schoolhouse at Bethany; cost \$12,000; 6 class rooms; auditorium; W. T. Beamguard, Contr., Clover, S. C.

Tex., Austin—University of Texas, Dr. Robert E. Vinson, Pres., will erect biology building; cost \$318,640; 192x66 ft.; 4 stories and basement; fireproof; hollow fireproof tile; cement, tile and linoleum floors; tile roof; reinforced concrete foundation; metal doors; ornamental terra cotta trim; central heating plant; Herbert M. Green Co., Archts., 620 N. Texas Building, Dallas; Wattinger Bros., Contrs., Austin; Chalkley Bros., San Antonio, at \$20,679 for plumbing; J. L. Martin, Austin, at \$14,558 for heating; Otis Elevator Co., New York, at \$4260 for elevators. (Lately noted.)

Tex., Cayuga — Board of Education will erect school; cost \$10,000; 54x74 ft.; 5 class rooms, library, work room, cloak rooms; 1 story; brick and hollow tile construction; Carey "Mict-Kote" roof; wood floors; Theo. S. Maffitt, Archt., Palestine; R. L. Williford, Contr., Athens.

Tex., Corsicana—School Board, H. D. Fillep, Supt., will erect high school; cost \$237,000; brick; steam heat; mastic floor and corridors; auditorium and balcony to seat 1000; lunch room to accommodate 300; 14 class rooms; library; 2 study halls; 4 laboratories and science rooms; 2 community rooms; 2 domestic rooms; 2 mechanical shops and commercial room; Brashear Construction Co., Contr., Texarkana; also erect Houston, Travis and Douglas schools; cost \$199,800; Johnson Construction Co., Contr., Waco; J. H. Wooley, Corsicana, plumbing at \$32,048 for schools; Kinnison Bros., Dallas, \$52,853 heating, ventilating; Newbury Electrical Co., Dallas, \$14,694 for electrical work; William B. Ittner, archt., Board of Education Bldg., St. Louis. (Lately noted.)

Tex., Hearne—Board of Education will erect school building for negroes; cost \$13,000; 2 stories; 8 rooms; frame; Edwin C. Creisle, Archt., 883 Scarborough Bldg.; C. E. Spurlin, Contr., 3102 Duval St.; both Austin. (Lately noted.)

Va., Abingdon—Board of Trustees will erect gymnasium and swimming pool at the

Stonewall Jackson College; John P. Pettyjohn & Co., Contrs., Lynchburg.

W. Va., East Bank—Board of Education, Edward Smith, Sec., East Bank, will erect school; \$30,000; 1 6-room; brick and steel; wire glass; tile roof; hollow fireproof tile; steam heat; electric lights; concrete floors; ventilators; steel sash and trim; J. T. McDaniels, Contr., Charleston, W. Va. (Lately noted.)

W. Va., Fayetteville—School Board is erecting high school; cost \$70,000; 56x111 ft.; native stone; 4-ply built-up roof; steam heat, cost \$8000; hardwood floors; ventilators; C. G. Janutolo, Archt.; Janutolo & Co., Contr., both Fayetteville. (Lately noted.)

W. Va., Glasgow—Board of Education, Edward Smith, Sec., East Bank, W. Va., will erect school; cost \$20,000; 4 rooms; brick and steel; wire glass; hollow fireproof tile; concrete floors; ventilators; steel sash and trim; steam heat; \$15,000; electric lights; J. T. McDaniels, Contr., Charleston, W. Va. (Lately noted.)

Stores

Fla., Bradentown—D. R. Roof will erect building on Pine St.; cost \$12,000; 3 stores; hollow tile, stucco, brick; 58x90 ft.; A. C. Price, Archt., Bradentown; Sam Pritchard, Contr., Tampa.

Mo., Kansas City—Tri-State Realty Company will erect \$60,000 arcade building, adjoining Walnut Apartment Hotel under construction; 72x156 ft.; 12 shops; Pratt-Thompson Construction Co., Contr., Kansas City.

N. C., Wilmington—White & Ham, Greensboro, will erect \$50,000 building at Front and Grace St.; cost \$40,000; 3 stories; 66x100 ft.; brick and steel; wire glass; metal ceilings; hardwood floors; interior tile; metal doors; concrete floors; asphalt roof; wood floors supported on steel beams; steam, cost \$6000; Otis elevator cost \$2500; Brady & Simon, Contrs., P. O. Box 1074, Wilmington. (Lately noted.)

Tenn., Knoxville—Vine Avenue Realty Co., will remodel theatre on Vine Ave., for stores, etc.; cost \$14,000; ordinary construction; wood floors; Ryno & Brackney, Archts.; Brimer & England, Contrs.; Engert-Long Plumbing Co., contractor for steam

heat; Henry Electric Shop, for lighting; all Knoxville. (Lately noted.)

Tex., Dallas—J. P. Reymonds will erect building on Prairie Ave.; 1 story; brick; 25x50; F. M. Skaggs, Contr., 2814 Park Row, Dallas.

Tex., Fort Worth—Vogue Department Store will remodel building, cost \$50,000; Butcher & Sweeney, Contrs., Fort Worth.

Tex., Houston—G. C. Street, Contr., Houston, will erect 2-story, brick building on McKinney and Milam Sts.

W. Va., Welch—Frank Fazio will erect building in Woodmont section; 30x50 ft.; 2 stories; 1st floor for store; 2nd floor for apartment; G. C. Johnson, Contr., Welch.

W. Va., Welch—Lopinsky Corporation will erect store; 22x72 ft.; G. C. Johnson, Contr., Welch.

Theatres

Fla., Century—Alger Sullivan Co., will erect building containing auditorium with stage, dressing rooms and balcony; 40x100 ft.; frame; wood shingle roof; wood floors; steam heat; Walker Willis, Archt., Pensacola; H. A. Pittman, Contr., Brewton, Ala. (Lately noted.)

Warehouses

Md., Baltimore—American Ice Co., Calvert Bldg., will erect storage warehouse on Eden near Monument St.; 56x100 ft.; 75 ft. high; capacity 70,000 tons; brick; slats on ash fill floors; ice hoists; C. Leslie Weir, Archt., care Knickerbocker Ice Co., 41 E. 42nd St., New York; H. Calvin Barnes Co., Contr., 113 E. Franklin St., Baltimore. (Lately noted.)

N. C., Greensboro—Greensboro Warehouse and Storage Co., J. E. Latham, Pres., will erect addition to warehouse; cost \$60,000; 30,000 sq. ft. storage space; brick and concrete; fireproof; Southeastern Construction Co., Contrs., Charlotte.

Tenn., Clarksville—Dark Tobacco Growers Co-operative Association will erect warehouse; cost \$65,000; 200x160 ft., brick and concrete; built-up roof, concrete floors; metal doors; ventilators; rolling partitions; steel sash and trim; wire glass; Manley & Young, Archts., Knoxville; Sumner Construction Co., Contr., 155 4th Ave., North Nashville, Tenn. (Lately noted.)

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Air Lift System.—City of Gibsland, La. Details under Construction News—Water Works.

Barges (Steel).—United States Engr. Office, Box 72, Louisville, Ky.—Bids until Sept. 13 for 19 steel barges, 110x26x6.5 ft.

Barge (Steel).—U. S. Engineer Office, Buffalo, N. Y.—Bids until Aug. 31 to construct 80-ft. steel barge.

Boilers (Hot Water).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Aug. 23 to furnish 22 hot water boilers; delivery Marine Barracks, Quantico, Va. Sch. 82.

Boilers (Water Tube).—Davis Equipment Co., Inc. (Mchy. Dealers), 50 Church St., New York.—To purchase three 300 h. p. water tube boilers, suitable for attaching underfed type of stoker.

Brick.—See Building Materials.

Brick (Sand and Lime) Machinery.—Joseph A. Beasley, 1005 De Leon St., Tampa, Fla.—To correspond with manufacturers of sand lime brick machinery.

Bridge.—City of DeLand, Fla. Details

struct 2 bridges. Details under Construction News—Bridges, Culverts and Viaducts.

Bridge.—El Paso County, Tex., will construct bridges. Details under Construction News—Bridges, Culverts and Viaducts.

Bridge.—City of Annapolis, Md. Details under Construction News—Bridges, Culverts and Viaducts.

Buffing and Polishing Machines.—O. W. Klingsick, Treas., Day-Brtie Reflector Co., 222 S. 8th St., St. Louis, Mo.—Buffing and polishing machines, plating machines and spraying machines.

Building Materials.—C. E. Williams, Brooklyn Sta., Baltimore, Md.—Desires prices f. o. b. Brooklyn on face brick, 8x12x12 weight supporting terra cotta tile, mill-work, metal lath, quarry tile, inter-locking tile, electric fixtures, etc., for residence.

Building Materials.—C. M. Collier, the Bank of the Everglades, Everglades, Fla.—Prices and data on stucco construction; also plans for houses.

Castings.—Board of Awards. Howard W. Jackson, Pres., Baltimore, Md.—Bids until

Aug. 29 to furnish and deliver 200,000 lbs. of manhole, sewer inlet, and similar iron castings; B. L. Crozier, Highways Engr.

Cement and Roll Roofing.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Aug. 23 to furnish 500 bbls. Portland cement and 5000 rolls roofing; delivery Marine Barracks, Paris Island, Port Royal, S. C.; Sch. 87.

Channel.—Calcasieu Parish Police Jury, Lake Charles, La.—Details under Construction News—Miscellaneous Construction.

Chemicals, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Sept. 5 to furnish 5000 gals. disinfectant; 12,000 lbs. naphthalene; 400 lbs. calcium chloride; 45,000 cans concentrated lye; 12,000 lbs. dry target paste; 70,000 lbs. neutral soda; delivery Marine Corps Storehouse, foot Snyder Ave., Philadelphia, Pa. except 1000 gals. of disinfectant, delivery Depot Quartermaster, Naval Operating Base, Hampton Roads, Sewells Point, Va. Sch. 96.

Clocks, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Sept.

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

4 to furnish 500 eight day clocks; 25 sketching cases; 25 military clinometers; 25 marching compasses; 10 sets drawing instruments; delivery Marine Corps Storehouse, foot Snyder Ave., Philadelphia, Pa. Sch. 93.

Coal Chute.—F. E. Robison, Palmyra, Mo.—Coal chute for basement windows of dwelling.

Concrete Tower and Chute.—Leaksville Lumber Co., Leaksville, N. C.—To purchase second-hand tower and chute with buckets, elevator, cables, guys, etc., for pouring concrete in buildings of reinforced concrete.

Conveying Machinery.—See Mining (Fullers Earth) Equipment.

Dam.—Dept. of the Interior, Bureau of Reclamation, Washington, D. C.—Bids until Sept. 12 to furnish all material, except cement and metal work, in constructing the Gerber dam; work involves about 10,000 cu. yds. excavation, and placing about 9500 cu. yds. concrete; for information apply to Bureau of Reclamation at Washington; Denver, Col.; Klamath Falls, Oregon.

Dock and Boat Basin.—City of Sanford, Fla. Details under Construction News—Miscellaneous Construction.

Drainage.—Northern Drainage Dist. Comms., Shelby, Miss. Details under Construction News—Drainage and Irrigation.

Dredge (Land).—Comms. of Chatham County and ex-officio Judges, Savannah, Ga.—Bids until Sept. 20 to furnish county with one oil burning land dredge, equipped with 1 cu. yd. bucket, operated by 45 h. p. internal combustion engine; machinery so designed as to dig new ditches and also clean out those already dug; G. Reuben Butler, Clerk.

Dredging.—City of Corpus Christi, Tex. Details under Construction News—Miscellaneous Construction.

Electric Fixtures.—See Building Materials.

Electric Light Improvements.—City of Gibsland, La. Details under Construction News—Water Works.

Electrical Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Bids until Aug. 27 to furnish 26,000 dry batteries, flash lights and buzzers; 100 hand set cords; 200 hand sets; 200 portable telephones; 20,000 ft. lamp cord; delivery U. S. M. C. Marine Corps Storehouse, foot of Snyder Ave., Philadelphia, Pa.; Sch. 89.

Electric Welding Outfit.—M. B. Parker, Chattanooga, Tenn.—Data and prices on electric welding outfit, suitable for making locomotive repairs.

Elevator (Passenger).—Bunch Furniture Co., Inc., Statesville, N. C.—Prices on passenger elevator.

Engine.—Davis Equipment Co., Inc. (Mch. Dealers), 50 Church St., New York—To purchase one 450 h. p. reciprocating underfed type of stoker.

Engine (Stationary).—John W. Wood, Linden, Va.—To purchase 4 h. p. stationary steam engine, new or used; state condition, etc.

Fire Equipment.—City of Gibsland, La. Details under Construction News—Water Works.

Flooring, etc.—Treasury Dept., Supvg. Archt.'s Office, Washington, D. C.—Bids until Sept. 10 for flooring over former Sub-Treasury room, including mechanics equipment and all incidental alterations, renovation and remodeling in the U. S. Post Office and Sub-Treasury, Boston, Mass.

Flooring (Oak).—Bunch Furniture Co., Inc., Statesville, N. C.—Prices on oak flooring.

Furniture (Church and Pulpit).—Mrs. T. W. Dunkelberger, 712 Rorer Ave., S. W., Roanoke, Va.—Prices on church and pulpit furniture for West End Presbyterian Church.

Furniture and Equipment.—Dallas County, Chas. E. Gross, County Auditor, Courthouse, Dallas, Texas.—Bids until Sept. 3 for furniture and equipment for new addition to Parkland Hospital; specifications from Mr. Gross.

Generators.—A. Carver, Rougemont, N. C.—Prices on generators, waterwheels, etc., to develop 80 to 100 h. p. hydro electric plant.

Hoists (Electric).—Wood & Lane Co. (Mch. Dealers) St. Louis, Mo.—To purchase two or three small electric hoists, rope pull 3500 lbs. speed 300 ft. per min. with 37 h.p., 220 volt, 3 phase, 60 cycle motor.

Hoist (Mine).—North Georgia Marble Products Co., Whitestone, Ga.—Steam driven m'ne hoist, double cylinder, single friction drum, 25 to 30 h. p., drum diam. from 36 to 40-in.

Kerosene and Gasoline.—The Byzene Co., Palatka, Fla.—Prices on kerosene and gasoline in quantities; correspond with dealers and refineries of the South.

Lathe (Engine).—Duncan Machinery Co. (Mch. Dealers) Box 265, Knoxville, Tenn.—Jobbers prices on 24 to 30-in. swing, 10 to 12 ft. between centers engine lathe, for general repair work in saw and planing mill plant; used or rebuilt.

Lighting Fixtures.—F. E. Robison, Palmyra, Mo.—Lighting fixtures for dwelling.

Lock.—U. S. Engineer Office, Pittsburgh, Pa.—Bids until Aug. 23 to construct new lock No. 7, Monongahela river.

Manhole Frames and Covers.—City Comm., E. P. Owens, Jr., Sec., Jacksonville, Fla.—Bids until Sept. 10 to furnish 90 cast iron manhole frames and covers, f. o. b. Jacksonville.

Marble Finishing Machines.—James F. Faulkner, Ball Ground, Ga.—Prices on marble finishing machines.

Metal Ceiling.—Bunch Furniture Co., Inc., Statesville, N. C.—Prices on metal ceiling.

Meters (Water).—City of Gibsland, La. Details under Construction News—Water Works.

Milling Machine.—J. C. Steele & Sons, Statesville, N. C.—To purchase large size milling machine (plain) about No. 4, new or in good condition.

Millwork.—See Building Materials.

Mining (Fullers Earth) Equipment.—L. M. Anderson Dental Supply Co., Tampa, Fla.—Prices on plain equipment for conveying and digging fullers earth or phosphate; daily capacity 100 tons.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Bids until Aug. 23 to furnish steel, iron or steel roofing; valves; pipe and fittings; asphalt cement; tube expander, boiler tubes; reamers, stop cocks; fibre ferrules; scythe blades and petroleum spirits. Blank forms and information (Circular 1551) on application to office of Panama Canal; Asst. Purchasing Agts. at Fort Mason, San Francisco, Cal.

Moulder and Matcher.—Poltevin Brothers, Pascouglia, Miss.—Prices on moulder and matcher.

Organ (Pipe).—Mrs. T. W. Dunkelberger, 712 Rorer Ave., S. W., Roanoke, Va.—Prices on pipe organ for West End Presbyterian Church.

Ornamental Iron.—Vinson B. Smith, Jr., Archt., Gulfport, Miss.—Catalogs of ornamental iron.

Ornamental Street Lighting.—City of Bluefield, W. Va. Details under Construction News—Electric Light and Power Plants.

Paving.—City of Rockwood, Tenn. Details under Construction News—Road and Street Construction.

Paving.—City of Baltimore, Md. Details under Construction News—Road and Street Construction.

Paving.—City of Charleston, W. Va. Details under Construction News—Road and Street Construction.

Paving.—City of Dallas, Tex. Details under Construction News—Road and Street Construction.

Paving.—Village of Barboursville, W. Va. Details under Construction News—Road and Street Construction.

Paving.—City of Bethany, Mo. Details under Construction News—Road and Street Construction.

Paving.—City of Fairmont, W. Va. Details under Construction News—Road and Street Construction.

Paving.—City of Jacksonville, Fla. Details under Construction News—Road and Street Construction.

Paving.—City of Norfolk, Va. Details under Construction News—Road and Street Construction.

Paving.—City of Sanford, Fla. Details under Construction News—Road and Street Construction.

Pipe (Lead and Galvanized Iron).—Town of Capitol Heights, P. O. Montgomery, Ala., J. W. Heustess, Mayor.—Bids until Aug. 31 for lead and galvanized iron pipe for house connections for mains; S. E. Washburn, Civil Engr., Hill Bldg., Montgomery, Ala.

Planer.—See Saws (Scroll, Self Feed Rip), etc.

Plans (Dwelling).—See Building Material.

Plating Machines.—See Buffing and Polishing Machines.

Plumbing.—F. E. Robison, Palmyra, Mo.—Bath room fixtures for dwelling.

Printing (Wood) Press.—Bryson Novelty Manufacturing Co., Fayetteville, Tenn.—To purchase 12x18 press for printing gasoline gauges and yardsticks.

Quarry (Marble) Machinery.—James F. Faulkner, Ball Ground, Ga.—Prices on marble quarry machinery.

Raffia.—Kilgore Seed Co., Plant City, Fla.—To purchase raffia in several different colors.

Railroad Classification Yards.—Harris County Navigation Dist., H. L. Washburn, Auditor, Houston, Tex.—Bids until Sept. 6 to construct railroad classification yards on north side of Turning Basin.

Road.—City of Ocala, Fla. Details under Construction News—Road and Street Construction.

Road.—City of Dallas, Tex.—Details under Construction News—Road and Street Construction.

Road.—City of Princeton, W. Va. Details under Construction News—Road and Street Construction.

Road.—City of Sonora, Tex. Details under Construction News—Road and Street Construction.

Road.—City of Gulfport, Miss. Details under Construction News—Road and Street Construction.

Road.—State Highway Dept., Frankfort,

In writing to parties mentioned in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Ky., will build 8 roads. Details under Construction News—Road and Street Construction.

Road.—City of Decatur, Tex. Details under Construction News—Road and Street Construction.

Road.—City of Orange, Tex. Details under Construction News—Road and Street Construction.

Road.—State Highway Dept., Austin, Tex. Details under Construction News—Road and Street Construction.

Road.—State Highway Comsn., Montgomery, Ala. Details under Construction News—Road and Street Construction.

Road.—City of Aiken, S. C. Details under Construction News—Road and Street Construction.

Road.—City of Dillon, S. C. Details under Construction News—Road and Street Construction.

Road.—City of Monroe, La. Details under Construction News—Road and Street Construction.

Road.—Escambia County Comsrs. will build two roads. Details under Construction News—Road and Street Construction.

Road Building Machinery.—Denton County Comms., Brent C. Jackson, Judge, Denton, Tex. Bids until Sept. 13 to purchase road tractors and machinery for use on roads in Denton County.

Road Building Material.—F. A. Tompkins, Nueces County Auditor, Corpus Christi, Tex. Bids until Sept. 10 to furnish approximately 7000 cu. yds. limestone binder material.

Roll Roofing.—See Cement and Roll Roofing.

Saws (Scroll, Self Feed Rip), etc.—Hines Lumber & Coal Co., El Paso, Tex.—Prices on scroll saw, self feed rip saw and planer.

Scraper (Drag).—Virginia Truck Body Co. (Equipment Distributor), 19 S. Linden St., Richmond, Va.—To purchase 1-3 cu. yd. drag scraper for pulling stiff clay and necessary cable, total pulling distance not exceeding 300 ft.

Seating.—See Furniture (Church and Pulpit.)

Sewerage System.—City of Lamar, S. C.—Details under Construction News—Water Works.

Sheet Brass.—Navy Dept., Bureau of Supplies and Accounts, Washington, D. C.—Bids until Aug. 28 to deliver sheet brass to navy yard.

Shore Protection.—City of Corpus Christi, Tex. Details under Construction News—Miscellaneous Construction.

Spraying Machines.—See Buffing and Polishing Machines.

Steel (Portable) Buildings.—Baker Car Co., Harriman, Tenn.—To purchase one or two portable steel buildings, approximate sizes, one 80 ft. wide x 300 to 400 ft. long, or two buildings of same floor space; one used for shop building and one monitor type for foundry.

Street Sweeper (Motor).—City of Columbia, S. C., W. S. Tomlinson, City Engr.—Bids until Aug. 21 to furnish motor pick-up sweeper.

Tile (Interlocking, 6-cell, and Quarry).—See Building Materials.

Water and Sewerage System.—City of Lamar, S. C. Details under Construction News—Water Works.

Water Tower.—City of Gibsland, La.—Details under Construction News—Water Works.

Water Wheels, etc.—A. Carver, Rongemont, N. C.—Prices on water wheels, governors, generators, etc., to develop 80 to 100 h. p. hydro electric plant.

Water Works.—City of Gibsland, La. Details under Construction News—Water Works.

Waterworks.—City of Capitol Heights, Ala. Details under Construction News—Waterworks.

Wharves.—City of Houston, Texas. Details under Construction News—Miscellaneous Construction.

Woodworking Machinery.—Bryson Novelty Manufacturing Co., Fayetteville, Tenn.—To correspond with manufacturers of machines for making gasoline gauges and yard sticks.

Financial News

New Financial Corporations

D. C., Washington—National Capital Securities Corp., capital \$200,000, incorporated by L. D. Burdett, E. V. Crittenden, both Takoma, D. C.; H. S. Gott, Washington.

Fla., Tampa—Guaranty Title Co., capital \$100,000, incorporated with P. R. Robin, Pres.-Treas.; Lloyd Roberts, Sec.

Miss., Corinth—Corinth State Bank, \$50,000 capital, incorporated by L. J. Foster, Tupelo, Pres.; D. A. Hill, V.-P.; O. M. Hinton, Act. V.-P. and Cash.

Miss., Louin—Peoples Bank of Louin, incorporated by R. A. Foster, E. M. Lightsey and others.

Mo., St. Joseph—Northwestern Finance Corporation of Missouri, capital \$12,500, incorporated by M. L. Rogers, S. L. Ewing and others.

Okla., Oklahoma City—Mortgage Investment Co., capital \$200,000, incorporated by W. A. Covington, W. P. Houck and others.

Tenn., Memphis—Fidelity Loan & Mortgage Co., capital \$50,000, incorporated by H. Chafin, W. T. Chafin, J. R. Malone and others.

New Securities

Ala., Albany—Street—City sold \$125,000 6% street improvement bonds to Jno. B. Weakley, Birmingham, at par and accrued interest.

Ala., Anniston—Paving—City sold \$20,000 bonds to Ward-Sterne Co., Birmingham; J. L. Wilke, Mayor. (Lately noted.)

Ala., Birmingham—Funding—Marx & Co. have purchased \$100,000 30-year 5½% Cherokee County bonds.

Ala., Capitol Heights—Waterworks—City, J. W. Heustess, Mayor, receives bids until Aug. 31 for \$50,000, 6 per cent waterworks extension bonds.

Ala., Seale—Intebtedness—Russell County defeated \$185,000 bonds; Henry D. Clayton, Judge.

D. C., Washington—Water, Sewer—Washington Suburban Sanitary Dist. Comm., T. Howard Duckett, Chmn., sold \$500,000 4½% bonds to syndicate composed of Mercantile Trust & Deposit Co., Stein Bros. & Boyce

and Townsend, Scott & Son, all Baltimore, at \$95.29. (Lately noted.)

Fla., Arcadia—Time Warrants—DeSoto County sold \$20,000 time warrants to First National Bank of Fort Myers and Bank of Fort Myers.

Fla., Avon Park—Schools—City sold \$75,000 bonds to Campbell & Co., of Toledo, Ohio, for \$76,671 with accrued interest.

Fla., Bartow—Road—Polk County will vote in October on bond issue to improve roads.

Fla., Brooksville—Road—Hernando County sold \$100,000 bonds. Address County Comms.

Fla., Clearwater—Roads and Bridges—Pinellas County will vote Sept. 11 on \$252,000 bond issue.

Fla., Dade City—Road and Bridge—Pasco County Board of Comms., A. J. Burnside, Clk., will receive bids until Sept. 3 for \$175,000 road and bridge warrants for Highlands Special Road and Bridge Dist.

Fla., Delray—City Improvement—City voted \$22,000 bonds for water and light plant improvements, \$16,000 bonds for park improvements, \$12,000 for municipal building, etc. Address The Mayor.

Fla., Fort Pierce—School—Fort Pierce and St. Lucie School District will vote Sept. 11 on \$140,000 bonds. Address District School Trustees. (Lately noted.)

Fla., Kissimmee—Road—Lake Wilson Section, Osceola County, sold road bonds to G. B. Sawyers Co., Jacksonville.

Fla., Miami—Canal—The First National Bank and the Bank of Bay Biscayne purchased \$150,000 bonds with accrued interest of the Baker Haulover District.

Fla., Orlando—Auditorium—City plans voting Sept. 4 on \$100,000 bonds. Address The Mayor.

Fla., St. Petersburg—School District No. 7 voted \$14,000 bonds. Address Dist. Schools Trustees.

Fla., St. Petersburg—Sewer—City Commissioners sold \$161,000 bonds to J. M. Lassing Co.

Fla., Seabreeze—School—School Dist. No. 1 (Seabreeze and Daytona Beach) voted \$125,000 bonds; Geo. P. Johnson, Pres., School Board. (Lately noted.)

Fla., Starke—Funding—Bradford County sold \$40,000, 6% bonds to Sidney Spitzer & Co., Toledo, Ohio, at 100.12.

Fla., Stuart—City Improvements—City, E. J. Ricour, Mayor, contemplates voting on bonds for water, electric lights, sewer, retaining wall, etc.

Fla., Tampa—School—Hillsborough County sold \$175,000 time warrants to First National Bank, Exchange National Bank, Citizens Bank & Trust Co. and National City Bank; all Tampa.

Fla., West Palm Beach—Sewer—City sold \$73,000 bonds to Farmers Bank & Trust Co. for par and accrued interest.

Fla., West Palm Beach—Road and Bridge—Palm Beach County Comms., Fred E. Fenno, Clk., will receive bids until Sept. 15 as follows:

\$70,000, 6%, \$1000 denom. bonds for Special Road and Bridge Dist. No. 19.

\$75,000, 5½%, \$1000 denom. bonds for Palm Beach Bridge Dist.

\$20,000, 6%, \$1000 denom. bonds for Special Road and Bridge Dist. No. 8.

\$11,000, 6%, \$1000 denom. bonds for Special Road and Bridge Dist. No. 12.

\$45,000, 6%, \$1000 denom. bonds for Special Road and Bridge Dist. No. 18.

\$5000, 6%, \$1000 denom. bonds for Special

Road and Bridge Dist. No. 17. (Lately noted.)

Ga., Brookhaven—School—City will vote Sept. 15 on \$30,000 bonds. Address The Mayor.

Ga., Buena Vista—School—City, T. B. Rainey, Mayor, will sell \$30,000 5% bonds August 18.

Ga., Hinesville—School—Hinesville Consolidated School Dist. Trustees will receive bids until Aug. 30 for \$25,000 bonds.

Ky., Calhoun—Road—McLean County voted \$350,000 bond issue. Address County Commrs.

Ky., Liberty—School—Liberty Consolidated School Dist. sold \$12,000 5½% \$1000 denom. bonds to Block, Fetter & Trost at par plus premium.

La., Amite—Road—Tangipahoa Parish, Chas. Black, Pres., Police Jury, called election Aug. 30 on \$25,000 bonds in Road District No. 8.

La., Coushatta—Road—City, A. I. Stephens, Mayor, will receive bids until Aug. 27 for \$50,000 road improvement bonds.

La., Crowley—School—City will vote Aug. 28 on \$20,000 bonds for purchasing Baptist Academy.

La., Crowley—Water, Sewer, Fire Fighting Equipment—City will receive bids until Aug. 31 for \$200,000 6% bonds. Address The Mayor. (Lately noted.)

La., Donaldsonville—School—Ascension Parish Police Jury, H. P. Broussard, Sec., will receive bids until Sept. 4 for \$100,000 bonds.

La., Gueydan—School—Vermilion Parish School Board, Abbeville, La., will receive bids on \$75,000 bonds at 6%. (Lately noted.)

La., Lafayette—Road—City plans vote Sept. 18 on \$135,000 bonds. Address The Mayor.

La., New Iberia—School—Eighth Ward School Dist. voted \$150,000 bonds. L. G. Porter, Supt. of Education.

La., New Roads—School—Pointe Coupee Parish School Board, A. McFarland, Sec., sold \$100,000 5½% bonds to Sutherlin, Barry & Co., Inc., New Orleans, at premium of \$1450. (Lately noted.)

La., Oak Grove—School—West Carroll Parish School Board will receive bids until Aug. 28 for \$36,000 bonds for Epps School Dist.

La., Shreveport—School—Caddo Parish School Dist. No. 14 sold \$75,000 bonds to Interstate Trust & Banking Co., New Orleans.

Md., Easton—Water and Sewer—City will sell \$25,000 bonds Aug. 21. Address The Mayor.

Miss., Clarksdale—Drainage—Hopson Bayou Drainage Dist., Sub-Drainage Dist. No. 1 sold \$30,000 6% bonds to Bank of Commerce & Trust Co., Memphis, Tenn.

Miss., Crystal Springs—Sewer—City authorized issuance of \$30,000 5½% bonds. Address The Mayor.

Miss., Ellisville—School—Board of Supervisors of Jones and Covington Counties plans to issue \$2700 bonds.

Miss., Greenville—Water Works—City will vote Sept. 4 on \$325,000 improvement and extension bonds. Address The Mayor.

Miss., Jackson—Improvement—State Bond and Improvement Comsn. will receive bids until Sept. 10 for \$1,500,000 short term notes. Address John Rowan, Sec.

Miss., Verona—Paving—City sold \$100,000 bonds to Bank of Tupelo, Tupelo, Miss.

Miss., Vicksburg—Road and Bridge—Warren County will vote Oct. 9 on \$502,000 bond issue; C. J. O'Neill, Chmn., Board of Trade.

Mo., Chadwick—School—Consolidated School Dist. Trustees will sell \$8000 bonds.

Mo., Edina—Waterworks and Sewer—City, W. A. Kelley, Clk., will receive bids until Sept. 17 for \$120,000 bonds, including \$60,000 for waterworks and \$60,000 for sewer. (Lately noted.)

Mo., Webb City—Indebtedness—City sold \$27,000 bonds at par, with accrued interest to Commerce Trust Co., Kansas City, Mo.

N. C., Asheville—School—Oakley Special Tax School Dist., Board of Education, F. L. Wells, Sec., will sell \$40,000 5½ or 6% bonds, \$1000 denom.; bids opened Aug. 28. (Lately noted.)

N. C., Asheville—Grace Special Tax School Dist. Board of Education, F. L. Wells, Sec., will receive bids until Aug. 28 for \$75,000 5½% bonds.

N. C., Ayden—Funding—City sold \$65,000 6% bonds to Geo. C. Fetner, Cherryville, at \$100.17.

N. C., Beaufort—Road and Bridge—Carteret County sold \$50,000 5½% bonds to Stacy & Braum, Toledo, Ohio, at \$1190 premium.

N. C., Fayetteville—School—Cumberland County Commrs. ordered election Oct. 2 in Cross Creek Township on \$125,000 bonds.

N. C., Gastonia—School—Gastonia Graded School Dist. sold \$100,000 bonds to Lewis S. Rosentiel Co., Cincinnati, Ohio. (Lately noted.)

N. C., Laurinburg—Water and Sewer—City voted \$150,000 bonds. Address The Mayor. (Lately noted.)

N. C., Lexington—School—Southmont School Dist. Trustees sold \$20,000 6% bonds. (Lately noted.)

N. C., Linwood—School—Linwood School Dist. will vote Sept. 25 on \$12,000 bonds; Wm. J. Parker, Clk., Davidson County Commrs., Lexington.

N. C., Mooresville—Street Improvement—Town, C. F. Clark, Clk., sold \$150,000 6% \$1000 denom. bonds to Geo. B. Burr & Co. and Kauffman-Smith-Emert & Co., Inc., St. Louis, Mo. (Lately noted.)

N. C., Mount Airy—Sewer—Town, A. V. West, Mayor, will issue \$10,000 bonds.

N. C., Nantahala—Road—Township will vote in near future on \$20,000 bonds to build end of Andrews-Aquone-Franklin Highway. Address R. L. Barnett, Aquone, N. C.

N. C., Rutherfordton—Sewer—Town, C. F. Geer, Mayor, receives bids until Aug. 20 to purchase \$74,000 6 per cent bonds.

N. C., Wadesboro—Road and Bridge—Chowan County sold \$150,000 bonds to Kauffman-Smith-Emert & Co., Inc., St. Louis, Mo. (Lately noted.)

Okla., Claremore—Road—Rogers County will vote on September 8 on \$650,000 bond issue. Address County Commrs.

Okla., Newkirk—Bridge—Kay County defeated \$600,000 bonds. Address County Commissioners. (Lately noted.)

Okla., Norman—Road—Cleveland County will sell \$200,000 bonds; R. A. Singletary, Sec. Good Roads Div. of Chamber of Commerce.

Okla., Paul's Valley—Park—City voted \$10,000 park improvement bonds. Address The Mayor.

Okla., Slick—Water Improvement—City voted \$89,000 bonds. Address The Mayor.

S. C., Andrews—Waterworks and Sewerage—Town Council and Waterworks Commrs. receives bids August 22 for \$70,000 waterworks and \$30,000 sewerage bonds not exceeding 6%; W. H. Andrews, Mayor. (Lately noted.)

S. C., Camden—Sewer and Streets—City voted \$10,000 sewer and \$85,000 street improvement bonds. Address The Mayor.

S. C., Greenville—Park—City Commission will sell \$110,000 bonds to improve parks.

S. C., Spartanburg—Street, Fire Station, etc.—City will vote Sept. 25 on \$500,000 bonds; Jno. F. Lloyd, Mayor. (Lately noted.)

Tenn., Jasper—Road—Marion County sold \$100,000 6% bonds.

Tenn., Knoxville—Market House—Auditorium and Schools—City, Roy H. Beeler, City Atty., will vote Sept. 29 on \$750,000 bonds for combined market house and auditorium for North Knoxville and \$1,000,000 school bonds.

Tenn., Manchester—Road—Coffee County will receive bids until Sept. 5 for \$300,000 5% semi-annual highway bonds. John P. Buchanan, Chairman, Finance Committee.

Tenn., Tazewell—Road—Claiborne County sold \$33,000 6% bonds to I. B. Tigrett & Co., Jackson. (Lately noted.)

Tenn., Union City—Levee and Bridge—Obion County will vote Sept. 15 on \$100,000 bonds. Address County Commissioners. (Lately noted.)

Tex., Austin—Filtration and Incinerator—City will vote Oct. 15 on \$450,000 bonds. W. D. Yett, Mayor.

Tex., Blossom—School—City Secretary will sell \$25,000, 5½% bonds Aug. 20. (Lately noted.)

Tex., Cameron—Road—Milan County Road Dist. No. 30 sold \$32,000 5½% bonds to First Municipal Bond & Mortgage Co., Dallas, Tex.

Tex., Clarksville—Sewer Disposal—City will vote Aug. 27 on \$40,000 5¼% bonds; Roy Goodman, City Clk.

Tex., Corsicana—Paving, Water and Sewer—City voted \$85,000 paving bonds and \$15,000 sewer and water bonds.

Tex., Cross Plains—Water—City votes Sept. 4 on \$25,000 bonds. Address The Mayor.

Tex., Dallas—Street, School, Sewer, Park and Fire Station—City will open bids Sept. 15 for \$3,250,000 bonds, including \$1,250,000 for streets, \$1,000,000 for schools, \$500,000 for sewer, \$325,000 for parks, \$150,000 for sanitary sewers, \$100,000 for fire station; M. G. James, City Sec. (Lately noted to open bids July 11.)

Tex., Edgewood—Waterworks—Improvement—City voted \$40,000 bonds. Address The Mayor.

Tex., Ennis—Water—City votes Sept. 7 on \$50,000 bonds. Address The Mayor. (Lately noted.)

Tex., Fairfield—Road and Bridge—Freestone County contemplates \$1,000,000 bond issue. Address John F. Wallace, Chmn., Freestone County Good Roads Com., Teague, Tex.

Tex., Fort Stockton—Water—Fort Stockton Water Improvement Dist No. 1 sold \$60,000 6%, \$1000 denom. bonds to J. W. Scrags & Co.

Tex., Gainesville—School—City defeated \$100,000 bond issue. Address The Mayor. (Lately noted.)

Tex., Galveston—Improvement—Galveston County will sell about Sept. 19 \$1,250,000 filling and grading bonds, \$100,000 street improvement bonds and \$125,000 water-works bonds. Address Robt. I. Cohen, Jr., City Treas.

Tex., Hearne—Sewer—City voted \$41,000 6% bonds. Address The Mayor.

Tex., Hemphill—Road—Sabine County voted \$117,000 bond issue. W. H. Davidson, County Judge, Hemphill, Tex.

Tex., Madisonville—Road—Madison County will vote in near future on \$200,000 bond issue. Address T. F. Ferguson, County Judge.

Tex., Mexia—School and Paving—City voted \$50,000 bonds to equip high school and for paving. Address The Mayor.

Tex., Naples—School—Naples Independent School Dist. defeated \$15,000 bonds. Address Dist. School Trustees. (Lately noted.)

Tex., Quitman—School—Quitman Independent School Dist. voted \$8000 6% bonds. Address Dist. School Trustees.

Tex., San Angelo—School—City voted \$25,000 bonds. Address Pres. School Board.

Tex., San Augustine—Street—San Augustine County, J. T. Miller, Judge, will vote Aug. 25 on \$50,000 bonds.

Tex., Sterling City—School—City voted \$50,000 bonds. Address The Mayor. (Lately noted.)

Tex., Sweetwater—Filtration—City, Joe H. Boothe, Mayor, voted \$35,000 bonds.

Tex., Taylor—Natarorium, etc.—City voted \$50,000 bonds. Address The Mayor.

Tex., Waco—School—Board of Public Instruction, H. S. Beard, Supt., sold \$24,000 bonds to Brown, Crummer Co., Dallas.

Va., Alexandria—School and Funding—City sold \$295,000 5% bonds to Estabrook & Co., New York, including \$100,000 school bonds at \$98.100 and \$195,000 public improvement and funding bonds at \$191.295.

Va., Norfolk—Municipal—City, Wm. B. Causey, Mgr., will sell \$3,955,000 bonds on Sept. 10, including \$2,000,000 port terminal bonds and \$1,955,000 4½% municipal improvement bonds; \$1000 denom.

Va., Richmond—Swimming Pool—City contemplates voting on \$125,000 bonds. Address Mayor Ainslie.

W. Va., Barboursville—Paving Improvement—City, T. W. Peyton, Mayor, will receive bids until Sept. 15 for \$13,000 bonds. (Lately noted.)

Financial Notes

Bank of Black Oak, Black Oak, Ark., reorganized; W. C. Craig, Pres.; C. W. Pittinger, V.-P.; W. J. White, Cash.

Bank of Commerce of El Dorado, Ark., received authority from Treasury Dept., Office of Comptroller, Washington, D. C., to operate as National Bank of Commerce.

Chicora Bank, Capt. E. A. Smyth, Pres., Pelzer, S. C., acquired by Lockwood, Greene & Co., Boston, Mass.

Interstate Casualty Co., Birmingham, Ala., increased capital from \$300,000 to \$1,000,000.

Mercantile Finance Corp., of Birmingham, Ala., increased capital from \$250,000 to \$500,000.

Richmond Trust Co., Richmond, Va., is reported to take over affairs of National Bank of Hopewell, Va.

Shelby County Building & Loan Assn., Shelbyville, Ky., increased capital from \$270,000 to \$500,000.

South Texas State Bank of Galveston, Tex., received authority from Treasury Dept., Office of Comptroller, Washington, D. C., to operate as South Texas National Bank.

Trade Literature

Many Rubber Products Listed.

The Goodyear Tire & Rubber Co., Akron, Ohio, have issued a "List of Goodyear Products" in pocket booklet form, briefly describing their tires, tire accessories and repair materials, aviation equipment and rubberized fabric products, rubber soles and heels for shoes, mechanical rubber goods and miscellaneous articles of rubber, including lawn hose, ink rollers, asbestos sheet packing, etc.

Improved Lighting Device.

A catalogue and an advertising folder concerning the new Sol-Lux luminaire for commercial lighting have been issued by the Westinghouse Electric & Manufacturing Co., of East Pittsburgh, Pa. In addition to illustrated descriptions of the various styles of these luminaires, price lists, etc., the catalogue contains information on the general subject of commercial lighting, telling how to plan such a lighting system and giving engineering data as to the proper mounting of the luminaires. It also gives in tabular form the number of foot-candles of light required for various classes of lighting service. The folder contains valuable sales information and should be of much assistance to dealers.

New Centrifugal Pump Described.

A new style centrifugal pump, called a "series pump", is described in Catalogue II of the DeLaval Steam Turbine Co., Trenton, N. J. In this pump double suction impellers and volute diffusers are used as in single stage centrifugal pumps, but the connecting passages from stage to stage are included in the pump case casting, as in the ordinary multistage pump. The advantages claimed are perfect hydraulic axial balance and high efficiency under varying loads, as is characteristic of the single stage pump. These series pumps are made with two or three stages. Where more than three stages are required the use of two independent pumps operating in series and mounted on a single base plate is recommended in order to keep down the length of shaft between bearings.

Fine Bulletin on Stokers.

The Cox Stoker is fully illustrated by several fine pictures, accompanied by comprehensive descriptive matter, in Bulletin CB2 of the Combustion Engineering Corporation, Combustion Engineering Building, Broad St., New York. This publication says that at the present time boilers totaling about 700,000 rated horsepower are equipped with those stokers, which are recognized as standard for burning anthracite and that this wide use of them is evidence of the soundness of the ideas and design of Eckley B. Cox who planned them and who was also the designer and builder of the first successful forced draft traveling grate, that being the beginning of the stoker. Moreover, over 200,000 rated horsepower of boilers are now equipped with Cox stokers burning coke "breeze." The bulletin is very complete and in addition to its other contents presents a table of typical evaporative tests.

Industrial Development of Florida.

Florida's wonderful industrial development is finely described and pictured in a new booklet of 43 pages called "Florida Today and Tomorrow," issued by the G. L. Miller Bond & Mortgage Co., of Miami, Fla. It abounds with a host of impressive facts concerning the state and its advancement in every way. Descriptions of many of the thriving places are given and the illustrations add splendidly to the fund of information. Included upon an early page is a reproduction of a letter written by the Editor of the Manufacturers Record describing the development of Florida and pointing out the great opportunities that are ahead. The booklet is excellently printed and the illustrations are superior.

A Directory of Manufacturers and Dealers.

Circular No. 86 of the Mobile & Ohio Railroad Co., dated July 20, 1923, is called "Directory of Industries", and it gives a complete list of various kinds of factory plants and dealers located at stations on the lines of the company. The contents of the directory are classified and names are given in full with locations. Capacities of manufacturing plants and of cotton gins are stated where possible. The directory includes canneries, packing houses, dealers in naval stores, agricultural implements, building materials, coal operators, cotton compresses and gins, creameries, live stock raisers and dealers, lumber manufacturers and dealers, foundries, grain elevators, in fact every kind of business.

Value of Sprinklers for Fire Protection.

The "Fire Record Number" of the Grinnell automatic sprinkler bulletin contains a photographic reproduction of a picture of the ruins of the school house burned at Cleveland, S. C., on May 17 when 76 people lost their lives. It is pointed out that there was not any sprinkler system in the building to automatically extinguish the fire when it was starting. A resolution unanimously adopted by the National Fire Protection Association says that it is an almost unquestionable fact that automatic sprinklers afford the highest degree of protection against fire in practically all cases where there is combustible construction or material, etc. Many interesting facts about the Grinnell sprinklers are in the bulletin, including some concerning the silica bulb sprinkler head.

Everything About Asphalt Paving.

The Asphalt Sales Department of the Texas Company has issued a 24-page booklet of pocket size on the subject of "Texaco Cold Patch", and it describes and illustrates the cold patch method of repairing all types of roads and streets, giving the proper proportions of stone and asphalt to be used, and taking the reader right through the entire process of repairing, including the mixing and curing of the batch, the preparation of the hole or worn area in the pavement and the construction of the patch. A copy of the booklet may be obtained by addressing a request for it to the Texas Company, asphalt sales department, 17 Battery Place, New York City. This and other booklets of the company now cover the complete range of asphalt paving and copies may be obtained for the asking.

Coal Yard Equipment Catalogue.

Converse's Catalogue No. 20 for 1923 and 1924 is published by the F. S. Converse Co., (Incorporated) Johnson City, N. Y., and covers coal yard equipment comprehensively. The company manufactures coal handling

(Continued on page 114)

To Insure Profits

Plan Your Budget on Sound Cost Accounting

*"It is one thing to make the Plan
quite another to work the Plan"*

PROFIT, in a large measure, is the elimination of LOSS. To be eliminated, Loss must be accurately detected.

Adequate Cost Accounting—Accounting Control—locates Loss, shows where, how, when, and in what amount it occurs, and points out the remedy.

Only thru Cost Accounting can the factors that enter into the Budget—always planned to *insure* Profits—be determined and controlled.

Present business conditions *demand* adequate and sound Cost Accounting, devoid of frills, and administered by a competent organization of experts of wide and varied experience.

ERNST & ERNST

AUDITS - SYSTEMS
TAX SERVICE

NEW YORK
PHILADELPHIA
BOSTON
PROVIDENCE
WASHINGTON

CHICAGO¹¹
MINNEAPOLIS
ST. PAUL
ST. LOUIS
KANSAS CITY

CLEVELAND
BUFFALO
PITTSBURGH
DETROIT
CINCINNATI
MILWAUKEE

INDIANAPOLIS
TOLEDO
ATLANTA
RICHMOND
BALTIMORE

NEW ORLEANS
DALLAS
FORT WORTH
HOUSTON
DENVER

tools and machinery, including bagging machines, belt conveyors, bags, baskets, brooms, car movers, chutes, forks, house shields, loading machines, screens, scoops, sheet steel, wheelbarrows, wire cloth, wrenches, etc. A particularly interesting and useful feature of the book is a series of tables that show the cost of coal in lots of from 10 to 2000 pounds of coal at from \$11.25 to \$16.50 per ton. This series which are collectively called "Converse's Computator", are copyrighted. They will be found widely useful. The catalogue is well printed and finely illustrated.

New Crane and Hoist Bulletin.

The Pawling & Harnischfeger Co., Milwaukee, Wis., have issued Bulletin No. 305, a new publication covering their complete line of traveling grab bucket cranes and monorail hoists. This bulletin has 32 pages and is liberally illustrated, the pictures showing the various kinds of grab bucket equipment and also many views of installations displaying applications in various industries.

Book Reviews.

Official American Textile Directory, 1923. New York: Bragdon, Lord & Nagle Co., 334 Fourth Ave. \$4., \$3., \$1.50 editions.

This volume of more than 1100 pages is a complete index of the textile industry of the United States and Canada and considers the handling of textiles from the raw materials to the finished goods; it also contains reports on the textile mills in Mexico. There is besides, an enlarged and comprehensive guide for buyers showing firms and companies which make, handle or sell machinery and supplies to the textile trade. There is a special table which gives the number of textile mills throughout the entire country and that shows also the kinds of mills. This table indicates that about 200 new plants have been started since last year and it may also be remarked that hundreds of new firms have begun and thousands of changes in old firms have taken place in the same period, these including all branches of the industry. The directory, it is stated, has been carefully prepared and edited and is accurate and complete. It is very handy for reference. It is about 100 pages larger than its predecessor.

Classics of the Bar. By Alvin V. Sellers. Volume Seven. Baxley, Ga. Classic Publishing Co. 1923.

This entertaining volume presents the stories of several of the world's greatest legal trials and a compilation of the arguments and speeches made in connection therewith. It covers successively the trial of the Earl of Stafford in the days of Charles First of England and the speech of the accused; the Russell Will Case, at Camden, N. J., in 1899, and the remarks of Robert G. Ingersoll on that occasion; the Zenger Libel Case, in New York in the year 1735, and the address made to the jury by Andrew Hamilton; the Brown-Davidson Damage Suit in New York in 1860 with Henry L. Clinton's speech, and lastly the trial of Daniel E. Sickles at Washington in 1859 who was charged with the murder of Philip Barton Key, of which he was finally acquitted, this including speeches by Robert Ould, James M. Carlisle, John Graham, Edwin M. Stanton, and James T. Brady, together with the instructions to the jury. The account of this latter trial, a very celebrated one in its day, takes up the greater part of the book covering more than 230 of its 337 pages. It is an extremely interesting volume for either the lawyer or the layman. The binding is of substantial cloth.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Office Location to Be Changed.

The location of the Philadelphia office of the Power Specialty Company, manufacturers of Foster Superheaters, economizers and oil heaters is to be changed and on and after October 1 the office will be in the Atlantic Building at the corner of Broad and Spruce Streets.

Branch and Service Station.

The Wood Hydraulic Hoist & Body Co., of Detroit, has opened a factory branch and service station at James and Cross Sts., Baltimore, Md., this being equipped for supplying customers with Wood hydraulic hoist, vertical and under body types; steel dump bodies of many styles and of all sizes. A large stock of parts is also carried.

Opening of a Testing Laboratory.

The Florida Testing Laboratory, W. W. Wood, president, has been opened at 127 Talleyrand Ave., Jacksonville, Florida, for analyzing fertilizers, water, soil, asphalt, metals, fuels, stone, etc., for testing all kinds of materials as to strength, etc., and also for inspecting road construction and road materials, street paving and materials therefor, lumber, etc.

Tractor Instruction Given Free.

H. H. (Jack) Chambers, director of the service division of the Holt Manufacturing Co., of Peoria, Illinois, and Stockton, California, builders of the "Caterpillar" tractors, and who is head of the Holt system of service schools, began work this summer on August 13 with his assistants, at Wausau, Wisconsin, the service school there starting this season's series of similar schools to be held throughout the country. It is planned to acquaint every owner of one of these tractors with complete practical knowledge of how to use and take care of the machine, all of this instruction being given without any charge. Specially built machines with housings cut away so that the mechanism can be plainly seen and studied are also being exhibited. Accompanying Mr. Chambers are Herbert S. Hinrichs, George W. Rhodes, Earl J. Howey, Jack Westphal and L. B. Neumiller.

Notable Sale of Electric Equipment.

Two 30,000 KW turbine generator units, with surface condensers, and auxiliaries, and the necessary transformers and switching equipment, have been purchased from the Westinghouse Electric & Manufacturing Co., of East Pittsburgh, Pa., by the Duquesne Light Co., of Pittsburgh, as additional equipment for their Colfax power station. Dwight P. Robinson & Co., of New York City, are the consulting and erecting engineers. The turbine is of the latest Westinghouse combination impulse and reaction type. It is designed to operate with 265 pounds steam pressure, 175 degrees superheat and 29 inches vacuum. Its most economical load point is at 25,000 KW and it is capable of developing an ultimate capacity of 35,000 KW. The turbine is of the single flow, single exhaust type. Other recent sales of Westinghouse equipment have been made to the Kentucky & West Virginia Power Co., at Logan, W. Va.; the American Electric Power Co., at Kenova, W. Va.; the New Edwards Hotel at Jackson, Miss., and many other points in other sections of the country.

Important Plant to Be Liquidated.

The Industrial Plants Corporation, 25 Church St., New York, have been engaged to liquidate the assets of the Century Steel Co., of Poughkeepsie, N. Y., excepting the real estate. This company has been manufacturing high grade crucible tool and high speed steel with modern high grade equipment and the machinery and materials to be sold include 250 tons of high carbon steel billets, 150 tons of finished high grade tool steel in merchant bars, smaller lots of high speed steel bars and high speed steel scrap, several steam hammers from 600 pounds to 3500 pounds, 50 crucible furnaces, 20 annealing and tempering furnaces, blowers, pyrometers, etc., and a complete machine shop equipment comprising lathes, planers, tools, shapers, grinders, saws, alligator shears, steel jib cranes, gas producer, etc.

Important Business Changes.

R. S. Manley, president of the Creosoted Materials Co., Inc., of New Orleans, La., since 1910, has resigned to become president of the Texas Creosoting Co. which is building a large plant at Orange, Tex., and F. P. Hamilton, who has served the Creosoted Materials Company, Inc., in various capacities as vice-president, general manager and sales manager, has become its president, filling the vacancy created by Mr. Manley's resignation. D. E. Roach, secretary and treasurer of the Creosoted Materials Co., Inc., went with Mr. Manley as secretary-treasurer of the Texas Creosoting Co., while Chas. M. Kerr and R. S. Denham, remained with the Creosoted Materials Co., Inc., as sales engineers, this company selling the products of the Southern Creosoting Co., Ltd., of Slidell, La., and Texas Creosoting Co., and others. Associated with Mr. Manley and others in the Texas Creosoting Co. is the Litcher & Moore Lumber Co., also of Orange.

Southern Demand Compelled Enlargement.

The Cannelton Sewer Pipe Co., Inc., Cannelton, Ind., have just completed construction of a large addition to their plant which will practically double its output, this increase of capacity being compelled by the increasing demand for Cannelton pipe especially south of the Ohio River and east of the Mississippi River and the company expects "to market the greater part of this additional production in the South, as we have great faith in its future," says an officer of the firm. The addition includes a new building 208 by 62 feet in area and four stories high, which is equipped with one power elevator and two gravity elevators, eight 32-foot kilns, and a new track of fifteen cars capacity which gives the plant a loading capacity of 20 cars. There is also an addition to the power plant of two 150 horsepower H. R. T. boilers, and the construction of a brick stack 120-feet high to replace old metal stacks, and finally the installation of a new 700 horsepower engine, a 10-foot dry pan, two 9-foot wet pans, one 44 by 60 steam press and a 6-foot Hummer electric screen, besides considerable smaller machinery. It is further remarked: "We are now closed down for the installation of the new machinery and when we resume operations about September 1, we will have a capacity of 2000 cars of pipe per year. We will be equipped for the manufacture of all sizes of pipe up to and including 36-inch and segment block from 30 to 108 inches."

No Brick Pavement Ever Wore Out From the Top Down



many cannot stand alone against all the world.

Permanent.

It is difficult to conceive of a legitimate argument against the proposition of the Ohio motorists that the state's main market highways be built with permanent "hard" surfaces. The suggestion argues itself. It may be permissible under some circumstances to construct less expensive roads in less traveled territory, but for the chief arteries of travel permanence ought to be a fundamental consideration.

We are in the midst, or perhaps at the dawn, of a motor age. Highways everywhere have become motor roads primarily, and the number of vehicles rapidly increases. Building perishable highways is as short sighted as it would be to erect houses without roofs in the expectation that no rain will fall. Highways must be built not only to support present traffic but the traffic that may be confidently forecast for the years at hand.

Permanence means smaller bills for maintenance, thus returning to the treasury some of its additional first cost. If a road is in continual need of repairs the indication is that the work was of a wrong type or was improperly done in the first place. Our idea is to put more money into original construction and thus avoid the necessity of putting so much into maintenance.

Is Europe Recovering?

Reports in regard

A forceful paving
preachment from the
May 16 issue of the
Cleveland Plain Dealer

IF there is a faulty brick pavement in your vicinity, remember this:—the chances are at least one hundred to one that either a poor foundation or bad drainage conditions wrecked it.

The fire-hardened brick on the surface, you can easily assure yourself, shows little or no wear except where failures *below the surface* have thrown individual bricks out of position. The perfect condition of the great bulk of the brick is ample proof of where the fault lay.

An enduring, low-upkeep pavement is a combination of three factors:—*first*, thorough and intelligently planned drainage; *second*, an adequate, well-built foundation; *third*, a vitrified brick surface.

Without the first two factors no road surfacing material can render lasting service. Without the last no street or road can withstand modern traffic and hold a smooth riding surface without creating a continuous drain on the public treasury for endless maintenance and repair charges.

Public sentiment on public paving jobs is accurately reflected by the newspaper editorial here reproduced.

FOR MODERN TRAFFIC CONDITIONS

VITRIFIED
Brick
LONG LIFE PAVEMENTS LOW UPKEEP

NATIONAL PAVING BRICK
MANUFACTURERS ASSOCIATION
ENGINEERS BUILDING CLEVELAND, OHIO

PROFITABLE PAPER MAKING POSSIBILITIES SOUTH

Many Southern localities have the bases of ample raw material, cheap power, favorable distributing facilities and other factors to guarantee economic production and distribution of "Kraft papers".

Is your community interested in establishing such an industry?

Write us

"FASTEST AND WIDEST"

We are building and will shortly install for

**THE BROWN PAPER MILL COMPANY
WEST MONROE, LOUISIANA**

the fastest and widest "Kraft" Paper Making Machine in the world.

It will produce a sheet of Super Kraft paper 170" wide at a maximum speed of 1000 feet per minute—with a possible daily production of over 50 tons.

The complete paper plant—land, buildings and machine—will cost upwards of \$2,500,000.00.

*Proven facts and details in
hand now ready for your study.*

**THE PUSEY AND JONES COMPANY
WILMINGTON, DELAWARE**

"Paper making machinery—for fifty years"

We build paper making machinery, centrifugal pumps, autoclaves, friction clutches, river steamers, tug boats and barges.

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The growth of the South is attracting the attention of the business world as never before.

Is your business expanding? Do you need increased banking facilities?

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GWYNN CROWTHER, President

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We extend the facilities of our organization to those desiring detailed information or reports on any of the companies with which we are identified.

Electric Bond and Share Company

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City, County, School and Road, from Municipalities and Contractors

WRITE

THE PROVIDENT SAVINGS BANK & TRUST CO.
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We deal in city, county, district, school, road, lighting, water works and other municipal issues.

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NOTICE TO CONTRACTORS

We want to buy bonds issued by cities, towns, counties, school, road or drainage districts that you may be able to take in exchange for work. Address us at our nearest office.

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DISTRICT

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FIRST NATIONAL BANK

JOHN M. MILLER, JR.,
President

Resources over \$30,000,000
Capital and Surplus \$4,000,000

YOUNG & SELDEN COMPANY

MANUFACTURING

Bank and Commercial Stationers

BALTIMORE, MD.

Takes Over Road Traversing Old Hickory Plant— County Will Maintain Road and Bridges.

Jacksonville, Tenn., August 18—[Special]—Acceptance by the Davidson County Court of a gift of 5.2 miles of concrete road traversing the Old Hickory Powder Plant, together with a suspension bridge spanning the Cumberland River at the end of the road, removed one obstacle standing in the way of actual construction work by the DuPont Fibersilk Company on its \$4,000,000 factory to be located here. The DePonts wished assurance of permanent highway facilities.

The Nashville Industrial Corporation, purchasers of the Old Hickory Powder Plant and the Government, holders of the title, concurred in making the offer to the county, with the purpose of aiding in bringing the big industry to the powder plant.

Final negotiations of the real estate transfer were held up by the DuPonts, pending the decision of the court in accepting the gift. The county takes over with title responsibility for maintenance of the road and bridge, thus assuring adequate upkeep of the highway.

The road originally belonged to the county, but possession was given the Government at the time of construction of the powder plant. With the sale of the plant, possession was in turn given the Nashville Industrial Corporation.

The road, which has a width of eighteen feet, passes through the village and plant areas, connecting two pikes on opposite sides of the river by means of the bridge.

The bridge was designed for one-way traffic, which is regulated by telephones at the approaches. Each approach is 500 feet long, and the span 540 feet. Approaches are wooden, and the towers and supports of steel.

When industrialization reaches a sufficient degree, a permanent bridge is promised to take the place of the one-way suspension bridge.

A Fine Book About Finland.

"Trade and Industry of Finland" is a large and handsomely illustrated volume of 746 pages, published by J. Simelius' Heirs Printing Company, Ltd., Helsingfors, Finland, a copy of which has been received by the MANUFACTURERS RECORD from K. F. Altio, consul general of Finland, 5 State St., New York.

The book is written in English in a most entertaining and instructive style and the many illustrations in it are finely made and show the business life of the country in detail. The southern boundary of Finland is within a short distance of Petrograd, Russia, and it extends northward through ten degrees of latitude to the seventieth degree, the northeastern extremity of the country touching the Arctic Ocean. The extreme width of the country is at the 62nd degree of latitude and from the 21 st to the 33rd degree of longitude east. The country abounds in streams of great water power potentiality and it is a land of many and diversified industries.

The book is part of a chain of propaganda to extend commercial relations between Finland, the United States, Great Britain and South America. It is impressive of the substantial character of Finnish industrial and general business advancement and of the energy, capacity and ability of the Finns.

Steel Bed Room Suites Now.

The Simmons Company, of Chicago, is now manufacturing a complete line of bed room furniture fabricated of steel, and following period designs both in colored enamels and in wood surface patterns. The Simmons Company has long been noted for its steel beds, and this new line of steel bed room furniture is said to be a logical step forward, and an undertaking which seems to be justified by the public's reported whole-hearted reception of it at the time of its display in various leading centers.

PROPOSALS

BOND ISSUES

BUILDINGS

PAVING

GOOD ROADS

Bids close August 30, 1923.

U. S. Engineer Office, Mobile, Ala. Sealed proposals will be received here until 11 a. m., August 30, 1923, and then opened, for 1200 ft. of 20 inch pontoon pipe in 40 ft. lengths and one 20 inch 90 degree elbow. Further information on application.

Bids close September 10, 1923.

U. S. Engineer Office, Montgomery, Ala. Sealed proposals will be received here until 11 A. M. Sept. 10, 1923, and then opened, for three 80'x28'x5', and three 60'x22'x4' steel barges. Further information on application.

Bids close August 31, 1923.

\$112,000 Road and School Bonds

On August the 31st, 1923, at Rolling Fork, Sharkey County, Mississippi, the Treasurer of said County will receive open bids for the sale of \$100,000.00 2nd Supervisors Separate Road District Bonds.

The assessed valuation of said District is \$1,600,000.00, with a population of about 2500.

There will also be sold on the same date \$12,000.00 bonds of the Rolling Fork Rural Separate Negro School Bonds.

M. P. MOORE,

Chancery Clerk,

Rolling Fork, Sharkey, County, Mississippi.

RATE: 35 cents per line per insertion. PUBLICATION DAY: Thursday. FORMS CLOSE 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close September 4, 1923.

\$50,000 6% Coupon Notes

ST. LUCIE COUNTY, FLA.

Fort Pierce, Fla.

Sealed bids will be opened on September 4, 1923, for \$50,000 Six per cent. semi-annual coupon Public Road and Bridge Negotiable Notes of St. Lucie County, Florida. Principal and interest payable to bearer at United States Mortgage & Trust Company, New York City, N. Y. Said notes mature, two notes on August 1 of each year 1925 to 1934, and three notes on August 1 of each year 1935 to 1944.

For further information address P. C.

\$20,000 6% School Bonds

Glennville, Ga.

We have to offer \$20,000 Midway School District 6% bonds, dated July 1, 1923. Ten thousand due in fifteen years and ten thousand due in thirty years. Interest payable Semi-annually. For full information, Address: C. L. COWART.

Bids close Sept. 3, 1923.

\$175,000 Road Warrants

Dade City, Fla.

The Board of County Commissioners of Pasco County, Florida, will receive sealed bids up to noon, September 3, 1923, for \$175,000 road warrants issued for Highlands Special Road and Bridge District, bearing date of October 1, 1923, and maturing on October 1 of the years and in the amounts, respectively, as follows: 1925, \$2000; 1926 to 1929, inc., \$3000 each year; 1930 to 1933, inc., \$4000 each year; 1934 to 1937, inc., \$6000 each year; 1938 and 1939, \$8000 each year; 1940 and 1941, \$10,000 each year; 1942 and 1943, \$14,000 each year; 1944 to 1946, inc., \$19,000 each year; 6% interest, payable semi-annually on April 1 and October 1; both principal and interest payable in New York. A certified check for \$1000 payable to B. A. Thomas, Chairman Board of County Commissioners, under the usual conditions, must accompany each bid. The Board reserves the right to reject any and all bids.

A. J. BURNSIDE,
Clerk.

Bids close August 23, 1923.

PROPOSALS FOR STEEL HULL FOR SAND DREDGE—Office, Mississippi River Commission, First and Second Districts, McCall Building, Memphis, Tenn.—Sealed proposals will be received here until Aug. 23, 1923, and then opened, for furnishing one steel hull for sand dredge. Further information on application.

Bids close August 28, 1923.

**Notice of Sale
of \$250,000 Road and Bridge
Improvement Bonds of
Laurens County, S. C.**

Laurens, S. C.

Notice is hereby given that up to and until four o'clock P. M., on the 28th day of August, 1923, sealed proposals will be received by the Laurens County Highway Commission at Laurens Court House, South Carolina, for the purchase of Road and Bridge Improvement Bonds of the said County, in the sum of \$250,000 authorized by the Laws of the State of South Carolina, and resolutions of the Board of County Commissioners of Laurens County, S. C., and the Laurens County Highway Commission of Laurens County, S. C.

Said bonds will be in denominations of \$1000.00 each, each bearing interest at the rate of five per centum per annum, and are to be dated July 2nd, 1923, the interest to be payable semi-annually on January 1st and July 1st of each year, both principal and interest being payable at New York in the State of New York, in gold. That said bonds will mature as follows:

\$8000.00 each year on July 1st, from July 1st, 1925 to July 1st, 1935, both inclusive.

\$9000.00 maturing each year on July 1st, from July 1st, 1936 to July 1st, 1953, both inclusive.

This issue of bonds will be sold subject to the approval of John C. Thompson, Attorney-at-Law, 120 Broadway, New York City, to be furnished by the Laurens County Highway Commission. All bids must be accompanied by cash or a certified check on some good and solvent Banking House for 2% of the amount of the bid, payable to the order of John D. W. Watts, Chairman of the Laurens County Highway Commission, as security for the compliance by the purchaser with the terms of his bid. Deposits made by unsuccessful bidders will be returned. The right is reserved to reject any and all bids. Proposals should be addressed to John D. W. Watts, J. F. Jacobs, J. Hamp Stone, R. L. Gray, W. R. McCuen and W. G. Lancaster, constituting the Laurens County Highway Commission, and should be enclosed in a sealed envelope marked on the outside "Proposal for bonds" and addressed to John D. W. Watts, Chairman of the Laurens County Highway Commission at Laurens, S. C. Proposals should be submitted on forms approved by John C. Thomson, Attorney of 120 Broadway, New York.

These bonds are general obligations of the County of Laurens, tax for Payment of principal and interest unlimited. Additional information in reference to said bonds may be obtained from W. G. Lancaster, Laurens, S. C., Secretary of the Board of Highway Commissioners.

JOHN D. W. WATTS,
J. F. JACOBS,
J. HAMP STONE,
R. L. GRAY,
W. R. MCCUEN,
W. G. LANCASTER,

Constituting Laurens County
Highway Commission.

Eldred, Clerk of the Board of County Commissioners.

Bids close September 1, 1923.

Reinforced Concrete Bridge

Covington, Va., August 4, 1923

The Board of Supervisors of Alleghany County will receive bids until 12 o'clock noon Sept. 1, 1923 for the building of a sixty foot span reinforced concrete bridge over Wilson's Creek about 3 miles east of Clifton Forge, Virginia.

The Board reserves the right to refuse any and all bids.

A certified check payable to Alleghany County of 10% of the amount bid shall accompany each bid.

Plans and specifications on file in Alleghany County Clerk's Office, Covington Virginia. Copy Tests,

OLIN J. PAYNE, Clerk.

Bids close August 29, 1923.

**North Carolina
State Highway Construction**

Raleigh, N. C.

Sealed bids for the construction of the following projects will be received by the North Carolina State Highway Commission at Raleigh, N. C., until 10 A. M., on the 29th day of August, 1923 when they will be opened and read:

Hard surface (Concrete or Asphaltic Paving Projects) including grading, reinforced concrete or cast iron pipe, structures, etc.

Project No.	County	Length (Miles)
180	Perquimans	9.96
185-C	Pitt	14.35
352 (macadam)	New Hanover	2.31
507	Alamance	4.03
592	Rockingham	8.22
611 and 697A	Anson-Union	12.45
641	Iredell	8.04
745	Forsyth	4.57
902	Buncombe	4.95

Topsoil, Sand Clay, Gravel, or Grading projects, including grading, drainage pipe, structures, etc.

421	Franklin	8.23
495	Warren	7.96

Specifications, proposal forms, etc., may be obtained from the State Highway Commission at Raleigh, N. C.

Plans may be seen in the Raleigh Office, or in the offices of the District Engineer.

Bridge plans may be obtained from the State Highway Commission at Raleigh, N. C., upon PAYMENT of Five (\$5.00) dollars per set.

The right is reserved to reject any or all bids.

By order of the North Carolina State Highway Commission.

Bids close Sept. 12, 1923.

Water and Sewerage System

Lamar, S. C.

Sealed proposals will be received by the Commissioners of Public Works of Lamar, S. C., at the Council Chamber, until 2 P. M., Wednesday, Sept. 12th, 1923, for furnishing all material and installing complete a water and sewerage system.

The water-works system will consist of cast iron mains and specials, galvanized service mains, tower and tank, pumping machinery, and reservoir.

The sewerage system will consist of approximately 19,000 ft. of 8", 10", and 12" sewer pipe and a septic tank.

Total amount of expenditures for water and sewerage will not exceed \$65,000.00.

Each bid must be accompanied by a certified check for five (5%) per cent of the total amount of the bid as evidence of good faith.

Copies of plans, proposals, contract forms, specifications, etc., may be seen on or after Aug. 22nd, 1923, at the office of the Sec. of the Commission, Mr. L. C. Munn, Lamar, S. C., and at the office of the Engineers, Columbia, S. C. Or, after the above date, will be mailed out upon request accompanied by check for \$10.00. This deposit will be refunded upon the return to the Engineers of the plans, etc., in good condition within 10 days after bids are received.

The Commission reserves the right to reject any or all bids.

L. C. MUNN,
Sec. & Treas.
Com. of Pub. Wks.

RYAN ENGINEERING CO.,
Engineers,
Columbia, S. C.

Bids close September 24, 1923.

Sanitary Sewers

St. Petersburg, Fla.

Sealed proposals for construction of Sanitary Sewers will be received at the office of the Director of Finance of the City of St. Petersburg, Florida, until 7.30 P. M., September 24th, 1923.

Approximately 138,610 feet of 6 to 21 inch sewer pipe, 395 manholes.

Plans and specifications may be obtained from the Director of Finance upon deposit of \$15.00 which will be refunded upon return of the plans in good condition within 10 days after bids are received. Each proposal must be accompanied by a certified check made payable to the Director of Finance for 5 per cent of the amount bid. City reserves the right to reject any or all bids.

H. T. DAVIS,
Director of Finance.

Bids close August 28, 1923.

Street Improvements

Beaufort, N. C.

Sealed proposals will be received for the materials and labor in connection with the improvement of certain streets in the Town of Beaufort, N. C. by the Mayor and Board of Aldermen of said Town, until two (2) o'clock P. M. of Tuesday, August 28th, 1923 when they will be opened and publicly read.

The specifications cover grading, storm drainage, retaining wall, granite and combination curbing and gutter, cement sidewalks, cement concrete, asphaltic concrete, sheet asphalt and bitulithic pavements.

Bids are asked upon approximately 20,000 square yards of pavement and alternative bids upon approximately 40,000 square yards; on 10,000 square yards of sidewalks and alternative bids upon approximately 20,000 yards. The pavement will be constructed from one or more of the classes mentioned above as may be selected by the Town, and the entire work to be done will be awarded under one or more contracts as the Town may elect.

Plans and specifications may be examined at the office of the Town Clerk at Beaufort, N. C. or at the offices of the Engineer at Winston-Salem, N. C. Specifications may be secured by prospective bidders by addressing the Engineer and making a deposit of ten (\$10.00) dollars.

Each proposal must be accompanied by a certified check in the sum of five (5%) per cent of the amount bid, as evidence of good faith upon the part of the bidder.

The Town reserves the right to reject any or all bids or to accept any which may seem to be to the best interest of the Town of Beaufort.

T. M. THOMAS, JR., Mayor.
M. A. HILL, Clerk.

J. D. SPINKS, Engineer,
Winston-Salem, N. C.

Bids close Sept. 10, 1923.

Street Improvements

Sanford, Fla.

Sealed proposals will be received by the City Commission of Sanford, Florida, at their offices in the City Hall, at or before 3 P. M., September 10, 1923, for grading, draining, and paving the following streets, to-wit:

Cypress Ave. from Union to Ninth St.	4686 Sq. Yds.
Commercial St. from Park to Palmetto Ave.	1153 Sq. Yds.
French Ave. from Ninth St. to Lake Monroe.	10090 Sq. Yds.
Mellonville Ave. from Celery Ave. to R. R.	2412 Sq. Yds.
Park Ave. from Fulton St. to Lake	2541 Sq. Yds.
Sixth St. from Magnolia to Laurel Ave.	2982 Sq. Yds.
Seventh St. from Magnolia to Mellonville Ave.	4994 Sq. Yds.
Sanford Ave. from Tenth St. to City Limits	13914 Sq. Yds.
West First St. from Mill Creek west to City Limits	15845 Sq. Yds.
Tenth St. from Park to Myrtle Ave.	1617 Sq. Yds.
Ninth St. from Cypress to Sanford Ave.	436 Sq. Yds.

Total 61570 Sq. Yds.

Proposal to be presented in a sealed envelope, endorsed on the outside "Bid for Paving" Sanford, Florida, and the name of the bidder or bidders.

Each proposal must be accompanied by a certified check, made payable at sight, to the order of the City of Sanford, Florida, for 3 per cent of the amount of their bid. The successful bidder or bidders will be required to give a bond equal to 50 per cent of his or their bid, and such bond to be executed by surety company licensed to do business in the State of Florida, said bond to be approved by the City Commission.

Copies of the plans and specifications may be seen at the office of the City Manager or at the office of Fred T. Williams, Engineer. Plans and specifications may be obtained at either office on deposit of \$10.00 which will be returned if a bid is made.

The City Commission reserve the right to reject any or all bids, or to accept any bid they deem to be for the best interest of the city.

W. B. WILLIAMS,
City Manager.

Bids close September 3, 1923.

Paving

Greenwood, Miss.
Sealed bids will be received by the Commission Council of Greenwood, Miss., at the office of the Mayor, City Hall, until 2 o'clock, P. M., Monday, September 3, 1923 for re-paving certain streets and avenues in the City of Greenwood.

Bids will be received upon Vertical Fibre brick, Vibrolithic concrete, Warrenite-Bitullithic, Sheet Asphalt (both Trinidad Natural Lake and oil residuum), Sheet Asphalt (Willite process) and Cascemco.

Approximate quantities:

44,382 sq. yds. of pavement.
680 sq. yds. 5-in. 1:2:4 concrete base.
680 sq. yds. defective 5-in. old concrete base to be re-moved.

360 cu. yds. Asphaltic concrete in place to repair old penetration top.

30,197 sq. yds. 2½-in. Asphaltic concrete base.

3085 lin. ft. Concrete combined curb and gutter.

3266 lin. ft. Combined curb and gutter to be re-lined.

3135 lin. ft. Combined curb and gutter to be re-moved.

524 lin. ft. 4-in. x 12-in. concrete header.

1778 lin. ft. Old stone and concrete header to be re-lined.

644 lin. ft. Old stone and concrete header to be re-moved.

820 cu. yds. old 1-in. sand cushion to be re-moved.

2462 cu. yds. Old wood block to be re-moved.

12,967 sq. yds. Old penetration base to be cleaned, repaired and re-crowned.

570 cu. yds. Excavation old penetration top.

CLASSIFICATION OF ALL TYPES ASPHALT PAVEMENT.

30,197 sq. yds. 1½ inch.

14,185 sq. yds. 2 inch.

Each bid must be accompanied by a certified check or Proposal bond in the sum of one thousand (\$1000) dollars as surety for the acceptance of the contract.

The successful bidder will be required to furnish surety bonds in an amount equal to fifty (50) per cent of the estimated cost of the work; such bond to be written by a Surety company doing business in the State of Mississippi and maintaining an office or agent within the State upon whom all notices may be served.

Before final acceptance of the work executed under the contract, the contractor will be required to furnish the City of Greenwood a surety bond in the amount of ten (10) per cent of the total amount of the cost of the work executed under the contract as surety that he will maintain the work for a period of five (5) years to the satisfaction of the Engineer and Commission Council. Such surety bond will not be required, however, to cover maintenance of failures in the wearing surface that may be due to defects in the old concrete base.

Plans and specifications are on file in the office of the City Engineer and City Clerk, City Hall. Copies of same may be obtained upon payment of five (\$5) dollars.

Each bid must be made in accordance with the plans and specifications and on the blank forms provided for that purpose.

The City of Greenwood reserves the right to reject any or all bids.

P. B. DENNIS,
City Clerk.

Bids close September 28, 1923.

Physical Education Building

AT NEW RIVER STATE SCHOOL,
MONTGOMERY, W. VA.

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 11:00 A. M., Sept. 28th, 1923, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Wysong & Jones, Architects, Charleston, W. Va.

The building is to be 90'x110', brick walls, concrete foundation, steel roof trusses, composition roof, terra cotta trim, maple floors, interior stairs iron, brick and stud partitions.

Plans, specifications and blank form for bids will be mailed by the State Board of Control, when request is accompanied with check for \$10.00, which amount will be refunded only on receipt of bona-fide bid on or before the time named above, and the return of the plans.

Bids to be accompanied with certified check payable to the State Board of Control for an amount equal to 1% of the bid, as guarantee of good faith.

STATE BOARD OF CONTROL

By JAMES S. LAKIN, Pres.
Charleston, Kanawha County, W. Va.

Bids close September 28, 1923.

Administration School Building

AT W. VA. COLLEGIATE INSTITUTE,
INSTITUTE, W. VA.

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va., until 4:00 P. M., September 28th, 1923, for doing all work and furnishing all materials necessary to complete the building described below, according to plans and specifications prepared by Warne, Tucker & Pateson, Architects, Charleston, W. Va.

A three story brick building faced with Hanover Red Pressed Brick, trimmed with Bedford Limestone, having composition roof, 288 ft. long by 76 ft. deep, with an ell at the rear 81 ft. by 90 ft.

There will be two fireproof stair towers with metal doors and window frames, and iron stairs.

All corridor and toilet room floors will be Terrazzo with Terrazzo base; all other floors will be wood.

The ground floor will consist of nine large class rooms, four offices, commercial department, eight music rooms, library, and four toilet rooms.

The first floor will consist of an Auditorium, eight large class rooms, two lecture rooms, two laboratories and two toilet rooms.

The second floor will be occupied by the balcony of the auditorium, five large class rooms, two lecture rooms and six laboratory rooms.

Plans, specifications and blank form for bids will be mailed by the State Board of Control when request is accompanied with check for \$10.00, which amount will be refunded only on receipt of bona-fide bid on or before the time named above, and the return of the plans.

Bids must be accompanied with certified check in the amount of \$1000.00 as guarantee that contract will be entered into and proper bond furnished.

STATE BOARD OF CONTROL,

By JAMES S. LAKIN, Pres.,
Charleston, W. Va.

Bids close September 28, 1923.

W. Va. School for Colored Deaf and Blind at Institute, W. Va.

Sealed bids will be received by the State Board of Control at its office in Charleston, W. Va. until 3:00 P. M. Sept. 28th, 1923, for doing all work and furnishing all materials necessary to complete the building described below, according to the plans and specifications of Wysong & Jones, Architects, Charleston, W. Va.

The building is to be 46'x90', brick and tile walls, concrete foundation, slate roof, terra cotta trim, oak and composition floors, interior stairs iron; tile and stud partitions; wood and metal joists.

Plans, specifications and blank form for bids will be mailed by the State Board of Control, when request is accompanied with check for \$10.00, which amount will be refunded only on receipt of bona-fide bid on or before the time named above, and the return of the plans.

Bids to be accompanied with certified check payable to the State Board of Control for an amount equal to 1 per cent of the bid, as guarantee that contract will be entered into and proper bond furnished.

STATE BOARD OF CONTROL

By JAMES S. LAKIN, PRES.
Charleston, Kanawha County, W. Va.

Bids close September 3, 1923.

Jail

Palatka, Fla.

Bids will be received by the Board of County Commissioners of Putnam County, Florida, until 2 o'clock p. m., September 3, 1923, for erecting a County Jail at Palatka, Florida. Copy of plans and specifications can be obtained from Mark & Sheftall, architects, Jacksonville, Florida on deposit of Fifteen Dollars.

R. J. HANCOCK, Clerk
August 11, 1923.

Bids close September 3, 1923.

Franchise for Gas Plant

Kinston, N. C.

The City of Kinston, Lenoir County, North Carolina, will entertain a proposition not later than September 3, 1923, to grant a Franchise to construct and operate a Gas plant.

Population 1920, 9776. Estimated population June 30th, 1923, 12,000.

Address all communications to

W. B. COLEMAN,
City Clerk.

Completion of School

Bids wanted for Concrete, Steel Reinforcement, Floor and Roof Construction, Masonry, Mortar, Damp Course, Mill Work, Sheet Metal Work, Roofing, Structural Steel and Iron Works, Tiling, Glazing, Paving and Drains, Plastering and Cement, Plumbing, Lavatories, Enamel Urinals, Drinking Fountain, Sinks, Hydrants, Hardware, Blackboards, Electrical Fixtures, Heating.

For Plans and Specifications, address

A. J. GAUDET,
Chairman Building Committee,
St. Ann's Parochial School,
1209 N. Galvez St.,
New Orleans, La.

Bids close August 31, 1923.

Construction of Stadium, Boilers, Heating and Lighting Equipment

Baton Rouge, La.

The Louisiana State University invites bids as follows:

- 1—Heating Equipment Hill Memorial Library.
- 2—Lighting Equipment Hill Memorial Library.
- 3—Two 300 H. P. Horizontal Water Tube Boilers.
- 4—Construction of Stadium.

Plans and specifications may be obtained by applying to Architect Theo. G. Link. No charge is made for these plans and specifications excepting those for the Stadium, for which a charge of \$10.00 is made, \$5.00 being refunded upon the prompt return of the plans and specifications after bids are opened.

Bids must be accompanied by certificate check payable to Louisiana State University equal to 2 per cent of the sum bid. Checks will be returned immediately to unsuccessful bidders when contracts are signed.

Bids must be in the hands of the Secretary of the Building Committee by 2:30 P. M., Friday, August 31st, 1923, when they will be opened.

The Committee reserves the right to reject any and all bids.

H. L. HIMES,
Secretary, Building Committee.

Bids close August 30, 1923.

License Plates

OFFICE OF THE CITY COMPTROLLER
ROOM 103, CITY HALL

Richmond, Virginia.

Sealed proposals addressed to the City Comptroller, will be received by him at his office, until 12 o'clock, noon, August 30th, for furnishing License Plates to the City for the year 1924.

Description and blank proposals will be furnished upon application to this office.

A Bond for \$500.00, satisfactory to the City Attorney will be required of the successful bidder as a guaranty of execution of contract.

The Comptroller reserves the right to reject any and all bids.

H. C. COFER,
City Comptroller.

Bids close September 17, 1923.

Garbage Incinerator

St. Petersburg, Fla.

Sealed proposals for the construction of an incinerator to incinerate garbage at the rate of 80 tons in 10 hours will be received at the office of the Director of Finance of the City of St. Petersburg, Florida, until 7:30 P. M., September 17th, 1923.

Proposals will be received on designs by Incinerator Companies and upon designs prepared by the City. Separate proposals will be received for the construction of the furnaces, the re-inforced charging floors with approaches and roof, and the 115-foot chimney in the City design.

Plans and specifications may be obtained upon deposit of \$25.00 which will be refunded upon return of the plans in good condition within 10 days after receiving bids.

Each proposal must be accompanied by a certified check made payable to the Director of Finance for 5 per cent of the amount bid. City reserves the right to reject any or all bids.

H. T. DAVIS,
Director of Finance.

CLASSIFIED OPPORTUNITIES

MINERAL AND TIMBER LANDS WATER POWERS, MISCELLANEOUS PROPERTIES

IRON MINES, Fluorspar coal, oil leases, for sale or lease, west Kentucky.
W. S. Lowery,
Salem Star Route. Marion, Ky.

MARBLE FOR SALE OR LEASE

I HAVE a large quantity of marble for sale or lease, located in Cherokee Co. Ga. 50 miles North of Atlanta Ga. on the L. & N. R. R. This marble proves to be of excellent quality for monumental and building material. James F. Faulkner, Owner, Ball-Ground, Ga. Route No. 5.

IRON ORE DEPOSIT IN MEXICO

STEEL MEN NOTE—A real deposit of 65% and better iron that will cost you less than 2c per ton; however, property so large it takes money to handle. Complete and detailed engineer's report furnished if you mean business. A. H. BLINEBRY, Box 827, El Paso, Tex.

COAL LANDS AND MINES

FOR SALE—COAL MINE Birmingham, Ala. territory; 320 acres in fee and can lease 1180 acres additional. Owners should construct two miles railroad and put in washer, making entire investment less than \$60,000. Properly managed easily clear 100% annually. Plenty of labor and easy control. Reason for selling owners live elsewhere and can't leave other interests. Don't answer unless you mean business and have capital. J. M. Head, Andalusia, Ala.

FOR SALE—Mine located both Louisville & Nashville and Southern Railway. Jellico seam, present capacity 400 tons per day, terms if desired. For further details address Dr. E. A. Guynes, 513 Walnut Street, Knoxville, Tenn.

TIMBER AND TIMBER LAND

TIMBER LAND FOR SALE—1700 acres of nice white oak timber, in Washington County, Maryland. Will cut about five million feet. Address No. 6206, care Manufacturers Record, Baltimore, Md.

TIMBER FOR SALE

About 8 million feet Pine and Hardwood timber near Augusta, Ga. Can be bought right. Or land and timber can be bought. H. R. Powell & Son, Realtors, Augusta, Ga.

FOR SALE—Over one thousand acres of timber oak, pine, and hickory, located in Cherokee Co. Ga. on L. & N. R. R. 50 miles N. of Atlanta. Will sell by boundary only. James F. Faulkner, Ball-Ground, Ga. Rt. 5.

FARM, FRUIT, AND TRUCK LANDS

CALIFORNIA

FOR SALE OR EXCHANGE—248 acres in Tehama County, California, free of all debt; will take \$25,000 or accept Florida or Georgia property. Here is a chance for someone to clean up. Address No. 6197 care Manufacturers Record, Baltimore, Md.

FLORIDA

FOR SALE—Choice colonization tracts, timber and farm lands in Northwest Florida at prices from \$5.00 to \$25.00 per acre. Also houses, hotels, apartments, bungalows and lots for sale in the Sunshine City of St. Petersburg, Florida. For particulars address, Jones & Yates Realty Company, 201 Sumner Building, St. Petersburg, Florida.

FLORIDA—Playground of the Rich; Paradise of the poor. The fastest developing State in the Union, and Roger Babson, the great business statistician, says that TAMPA is destined to be the greatest city in the Southeast. Come and be one of us. We have a Home, Grove or Farm for you. Send today for booklet "Largest Orange Tree in the world," and list. Tampa-West Coast Realty Co., (Inc.) Opp. Post Office, "Since before the war," Tampa, Fla.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost, allow seven words of ordinary length to a line. When the advertisement contains a number of long words, proper allowance should be made. Terms: Invariably cash with order; check postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c. per line; 300 lines, 26c. per line; 500 lines or more, 25c. per line.

GEORGIA

WANTED to sell well improved farm, with all equipment, at Rogers, Ga., on main line Central Railway, of 3860 acres for One Hundred and Fifty Thousand Dollars, part terms, or to correspond with some firm who will cut into small units and sell to home seekers. Address T. Z. Daniel, Millen, Ga.

MEXICO

TWO LARGE DEVELOPED MINES in Mexico that are priced to sell; one gold, the other lead, zinc and silver. Reports sent on request. A. H. Blinebry, Box 827, El Paso, Texas.

SOUTH CAROLINA

SECLUSIVE BUILDING SITES perfectly drained on deep water. Large acreage in magnollas, live oaks, palmettoes, and Southern pines. Situated on three-mile expanse of water. Excellent health. Pure artesian water. Winter temperature 57.2 degrees. Roses and other flowers bloom in mid-winter. Five miles to railroad station. Excellent neighborhood. Ideal for winter homes. Fishing and hunting. If interested, write

LAKE REALTY COMPANY,
Beaufort, S. C.

TEXAS

TEXAS—8000 acres of fine farming land located on South Plains the finest cotton and corn land in the South, will grow anything that is grown in California except citrus fruit. Finest watered country there is in the state. Price \$11 per acre. Address, John Vaughn, Plainview, Texas.

BUSINESS OPPORTUNITIES

I SPECIALIZE in industrial, warehouse and business sites at and adjacent to Washington, D. C.

M. B. HARLOW,
Harlow Building, Alexandria, Va. Colorado Building, Washington, D. C.

FINANCIER TO EXPLOIT PATENTS for fresh food conservation process in small storing units; also advertising reference calendar that never runs out of date. N. J. Darden, 11 Grant Place, N. W., Washington, D. C.

\$10,000 GIVEN AWAY

To any one who will furnish me with \$150,000 for five years at 6 per cent. Money to be used to complete the development of a coal mining property which will then be worth \$500,000.

Your money will be secured by 1000 to 1200 acres of mineral rights including 375 acres in fee simple of well timbered land. Entire acreage consists of Elkhorn coal 5½ feet thick with six inch parting. This is the best by-product coal in the world. Two other seams four feet each of clean, high grade domestic. Hazard No. 4 five to seven feet thick—a good gas coal. Third interest in over a mile of standard gage railroad. Premium money to defray all expenses. For further particulars, address J. L. Oldham, Whitesburg, Ky.

BUSINESS OPPORTUNITIES

AN EXCEPTIONAL OPPORTUNITY.

Offered party who will make substantial investment in an Engineering and Construction Company operating in Southwest and desiring to enlarge operations.
Address: Apartment Four, 328 West Missouri St., El Paso, Texas.

WANTED—Partner with executive ability as manager to take half interest in an established manufacturing business in city of 60,000 population in Virginia; this will require \$3000 to handle; this position nets a salary of \$50 per week the year around. Please do not take up our time unless you have the money and mean business. Address No. 6203 care Manufacturers Record.

WE PUBLISH a weekly bulletin listing new foreign specialties and processes in all lines for which American manufacturing rights or exclusive selling agency are open. Subscription \$25 per quarter year. Exclusive items coming from our own correspondents throughout world. If interested address Box 24, Station F, New York.

OPPORTUNITY to acquire manufacturing and sales rights on Patented Bolted Steel Tank construction—proven practical for many purposes. Address No. 6208, care Manufacturers Record, Baltimore, Md.

FINANCIAL

SOUTHERN MILL STOCKS BANK STOCKS BONDS.

25 years' experience in this field.
F. C. ABBOTT & CO.,
Charlotte, N. C.

VALUABLE TEXT-BOOKS on the "Money Question"—The most vital question affecting the welfare of the people. The Monetary Educational Bureau, Kellogg Bldg., Washington, D. C.

INDUSTRIES WANTED

"INMAN, S. C., wants industries, large and small. Offer cheap power—healthful climate—good labor conditions. Address Inman Chamber of Commerce, Inman, S. C.

FAYETTE, ALA., wants INDUSTRIES, large or small. Fine location for cotton mill, Tannery, Box and Veneer Factory. Good labor conditions, cheap power, healthy climate, on railroad, in center of cotton and lumber section. Address, Chamber of Commerce.

INDUSTRIES WANTED

COMPLETE 50 TON daily capacity Fullers Earth Products Manufacturing plant. Can be seen in operation. Machinery and buildings good as new, has an unlimited amount of earth, 60 ft. vein, 3 to 6 ft. from top earth. Fullers Earth for sale 10 ton f. o. b. Texas. Address G. W. Scheuing, 1018 Wyoming Street, San Antonio, Texas.

FOR SALE OR RENT. One Reinforced steel concrete warehouse, electric elevator, mill constructed, sprinklered, containing 60,000 square feet floor space located in the city of Atlanta, Ga., close in on Southern Railroad. Insurance rate \$1.25 per thousand per annum. Ideal building and location for storage of any kind. Will rent space, lease or sell entire plant. Manget Bros. Company, Newnan, Ga.

UP-TO-DATE GREY IRON and brass foundry property, fully equipped to make castings up to ten tons each, also pattern shop. Now operating profitably with contented American labor in progressive southeastern Pennsylvania city. Owners have other and older interests on which they wish to concentrate. If desired, will retain interest. Address No. 6207, care Manufacturers Record, Baltimore, Md.

INDUSTRIAL PLANTS

INDUSTRIAL OPPORTUNITY

BOX FACTORY FOR SALE—Profitable, fully equipped, splendidly located, \$50,000 Box Plant, in one of best Cities of 65,000 population in the South. Ample cheap raw material. Well organized with reliable, experienced, intelligent and competent help. Low overhead; labor plentiful, at low rates. **REASON FOR SELLING:** Owners have other interests requiring capital and time. Address: B. B. TAYLOR, Macon, Ga.

FACTORY SITES

For Sale
MANUFACTURING SITE
on Railroad and Water
Hastings Bros., Norfolk, Va.

FOR SALE—FACTORY SITES in best diversified successful manufacturing city in United States. Warren Ross Lumber Co., Jamestown, N. Y.

WARSAW, NORTH CAROLINA

Has all the facilities required for manufacturing enterprises of any kind. Its climatic conditions, its railroad facilities and the large population of laboring people in the near vicinity make it a most desirable point. Manufacturers are invited to correspond with us with reference to locating here. Address Secretary,

CHAMBER OF COMMERCE,

Warsaw, N. C.

FACTORY SITES

FOR SALE—Desirable manufacturing site with building, 5 acres, railroad siding, edge Cleveland, Ohio. Suitable for a contractors repair or storage yard or light manufacturing. On large trunk railroad, paved roads, electricity, suburban car. Address No. 6205, care Manufacturers Record.

PATENT ATTORNEYS

INVENTORS—Send sketch or model of your invention, for opinion concerning patentable nature, and exact cost of applying for patent. Book, "How to Obtain a Patent" sent free. Gives information on patent procedure and tells what every inventor should know. Established 25 years. Chand-lee & Chandlee, 412 7th St. N.W. Washington, D. C.

PATENTS—TRADEMARKS—INVENTORS SHOULD write for our free Guide Books. List of Patent Buyers and RECORD OF INVENTION BLANK before disclosing their inventions. Send model or sketch and description of your invention for our free opinion of its patentable nature. Highest references. Reasonable terms. VICTOR J. EVANS & CO., 712 Ninth, Washington, D. C.

PATENT SENSE

"The Book for Inventors and Manufacturers." FREE. WRITE LACEY & LACEY, Dept. 15, Washington, D. C. Est. 1869.

PATENTS—Booklet free. Highest references. Best results. Promptness assured. Watson E. Coleman, Patent Lawyer, 624 F St., Washington, D. C.

PATENTS AND PATENT CAUSES—Searches; Applications; Reports on questions of Validity and Infringement. Development, design, manufacture and contracts. Registered Patent Attorney; Member American Society of Mechanical Engineers. ARTHUR SCRIVENOR, Mutual Building, Richmond, Va.

AGENCIES WANTED

A WELL ESTABLISHED MANUFACTURER of a high class building product which has been, and is being used on many of the country's most important engineering and architectural projects, wants sales-engineering representation in Atlanta, Birmingham, Nashville, New Orleans, Charleston, Memphis, and other southern centers. Commission basis. Our proposition would be interesting to other non-competing manufacturers who want an additional line to market through architects, engineers and contractors, as well as to sales-engineering organizations who are not manufacturers. Address No. 6204 care Manufacturers Record, Baltimore, Md.

SITUATIONS WANTED

MANUFACTURING EXECUTIVE: American, 33 years' old, married, technically trained, 12 years' experience in manufacturing covering design, estimating, purchasing, planning, scheduling, production, inspection and industrial engineering of quantity production products, such as ammunition, fishing tackle, cutlery, flashlights, batteries, phonograph records, pressed metal products, stampings, etc. desires position. Address No. 6200 care Manufacturers Record, Baltimore, Md.

MEN WANTED

"WANTED"—Thoroughly competent foreman for sand and gravel plant, water and land combined. Good opportunity for the right man. Address—E. S. Blanton, P. O. Box 221, Newport News, Va.

WANTED—An experienced superintendent for millwork plant working 100 men. A good position for right man. Give age, experience and references. Lumber Co., Box 668, Greensboro, N. C.

MANUFACTURERS' AGENT, for mechanical machinery, and architectural material, territory Maryland and Virginia. W. J. Spencer, 410 Bond Bldg., Washington, D. C.

BIG MONEY FOR HUSTLERS

An Unusual Opportunity for a few high grade men or firms to act as distributors for patented article backed by highly rated established company. This article is nationally advertised, known in every state, and used by the country's largest firms. Enables them to get more power at less cost using same machinery. All or part time men acquainted with engineers, factories, ice companies, railway mechanical executives, machine shops, preferred. Write for application blank. Box 502, Wellston, St. Louis, Mo.

SUPT. AND FOREMAN wanted for Bituminous Macadam road. Write or wire us at Worthington, W. Va., stating experience and salary wanted. Rogers & Shumway, Inc.

Salaried positions \$2500 to \$25,000 upward: executive, technical, administrative, engineering, manufacturing, professional managing, financial, etc., all lines. If you are qualified, and receptive to tentative offers for a new connection you are invited to communicate in strict confidence with the undersigned, who will conduct preliminary negotiations for such positions. A method is provided through which you may receive overtures in confidence, without jeopardizing present connections, and in a manner conforming strictly to professional ethics. Send name and address only; preliminary particulars will be sent without obligating or compromising you in any way. R. W. Bixby, Inc., 403 Lockwood Building, Buffalo, N. Y.

MACHINERY AND SUPPLIES

BOILER—For Sale—One 66-inch x 16-ft. return tubular boiler, Schofield make, in good condition. Address Box 1178, Columbus, Ga.

TRACTORS—New Model W Cleveland Tank Type Tractors for sale cheap account of changing business. Address Box 135, Anderson, S. C.

FOR SALE.

One Sturtevant Roll, new, with two million tons 54% iron ore, close to switch. C. G. Samuel, Athens, Tenn.

FEED MILL MACHINERY—Alfalfa grinder, chop mill, oat crimper, batch mixer, shafting, pulleys, elevators—complete 50-ton plant. Will sell all or any part. List and price on request. GRENADA FEED MILLING CO., Grenada, Miss.



SPECIAL ADVERTISEMENTS OF GENERAL INTEREST

3000 ACRES

A rare country estate, embracing river, lake, trout streams, deer preserve, mountains and valleys.

In New York State, 100 miles from New York City, reached by express train service and excellent motor roads. Master's home of English Manor type. Two other master's dwellings.

To be sold at severe sacrifice. A pictorial brochure, sent on request, tells the story in detail.

S. S. WALSTRUM
Ridgewood, N. J.

IDEAL BUILDING FOR
LIGHT MANUFACTURING FOR SALE

Steam heat and electric power. Located in town having three railroads. Plenty labor—both male and female. Living conditions very reasonable. A wonderful opportunity for a firm looking for new location or desiring an additional plant.

Correspondence invited with owner

STANLEY BLISS

Earlville, N. Y.

RAW MATERIALS
TRANSPORTATION
POWER AND LABOR



The **FOUR**
Essentials
to Industry

are at
COLUMBIA,
S. C.



Authentic Detailed Information by
Columbia Chamber of Commerce

AN UNUSUAL OPPORTUNITY

Is offered to purchase a series of one story buildings with tools and machinery and full line of auto material and parts, including wheels, springs, axles, carburetors, motors, etc. Buildings appraised at \$57,000.00; machinery and tools \$32,000.00; material \$201,000.00. Can be bought at great bargain. Fine opportunity for experienced manufacturer to establish auto plant or plant for manufacturing bodies. Situated in Middle Atlantic States. Fine distributing point on three trunk line railways and plant immediately on main line with spur track. Your inquiry and investigation invited.

Address A-307 care of Manufacturers Record
Baltimore, Md.

WANTED

Asphalt Foremen, Rakers and Tampers

An asphalt plant foreman thoroughly experienced handling Trinidad asphalt. Also want experienced street foreman, three asphalt rakers and two tampers. 150,000 yards sheet asphalt. Job starts September 15th. State experience and salary wanted in first letter.

HOGAN CONSTRUCTION CO.
Little Rock, Ark.

FOR SALE AT LESS THAN 90 CENTS PER SQUARE FOOT INCLUDING IMPROVEMENTS AT NEW ORLEANS, LA.

Two and one half solid squares of property in the heart of the commercial and industrial district, immediately adjoining and back of docks operated by Board of Port Commissioners and served by switch track. Full particulars on application.

W. S. BENDER, Realtor
1016 Maison Blanche Bldg. New Orleans, La.

SPECIAL AUCTION SALE—BUSINESS PROPERTY ON THE PREMISES, 2409-11 EASTERN AVENUE TUESDAY, SEPTEMBER 4TH., 4 O'CLOCK

Lot 60' x 140' East of Patterson Park Ave.
3-STORY, HEAVY CONSTRUCTED DAYLIGHT BUILDING
Suitable for manufacturing of metals, wood, cans and canning, machinery or any products. Could be converted into amusement center, bowling alleys, moving pictures, hotel or apartments. New boiler, electric elevator and lights. Now leased to The Tin Decorating Company.

POSSESSION OCTOBER 1, 1923.
Deposit \$2500, settlement October 1. Terms and conditions announced at sale.

CHAS. N. BOULDEN & CO., Realtors and Auctioneers
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The Seneca Chamber of Commerce is prepared to offer special inducements to manufacturers seeking locations in this section.

All correspondence will be given careful attention.

The Seneca Chamber of Commerce
Seneca, S. C.

TRUSTEE'S SALE OF FERTILIZER PLANT, OIL MILL, ETC.

Pursuant to an order of sale in the matter of Anderson Phosphate & Oil Company, Bankrupt, I will sell at auction at Anderson, S. C., August 27th, 1923, at noon:—

1st. The fertilizer plant of said Company located two miles Northwest of Anderson on the Blue Ridge Railroad, consisting of 64.03 acres of land (with easement for passage of fumes over adjoining lands), buildings, structures, machinery, equipment, etc.; also twelve warehouses situated at Walhalla, Seneca, Anderson, Starr, Iva, Barnes, Belton, Greer, Hodges, Pickens, and West Union, S. C.; also the stock of raw and other materials and supplies on hand at said plant.

2nd. The cottonseed oil mill plant at Anderson, S. C., with 4½ acres of land, buildings, machinery, equipment, supplies, etc.

3rd. Office fixtures, furniture and equipment.

4th. Used automobiles.

Terms cash. Upset price fixed by court of Sixty-five Thousand Dollars on Item 1; Thirty Thousand Dollars on Item 2. Bidder to first deposit check for ten per cent. of upset price to guarantee good faith.

For further information write to—

Anderson, S. C.

July 26th, 1923.

J. J. Major,
Trustee.





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Southern architects and builders not only are using excellent judgment in design but they are also exercising great care in the selection of materials.

In the Soldiers' Memorial Hospital, Muskogee, Okla., for example, Pyrobar Partition Tile were used throughout for interior partitions. Architects are taking advantage of the fact that Pyrobar are fireproof and sound-deadening, are easily sawed to fit difficult places, save time of construction and make smoother, plaster-saving walls.

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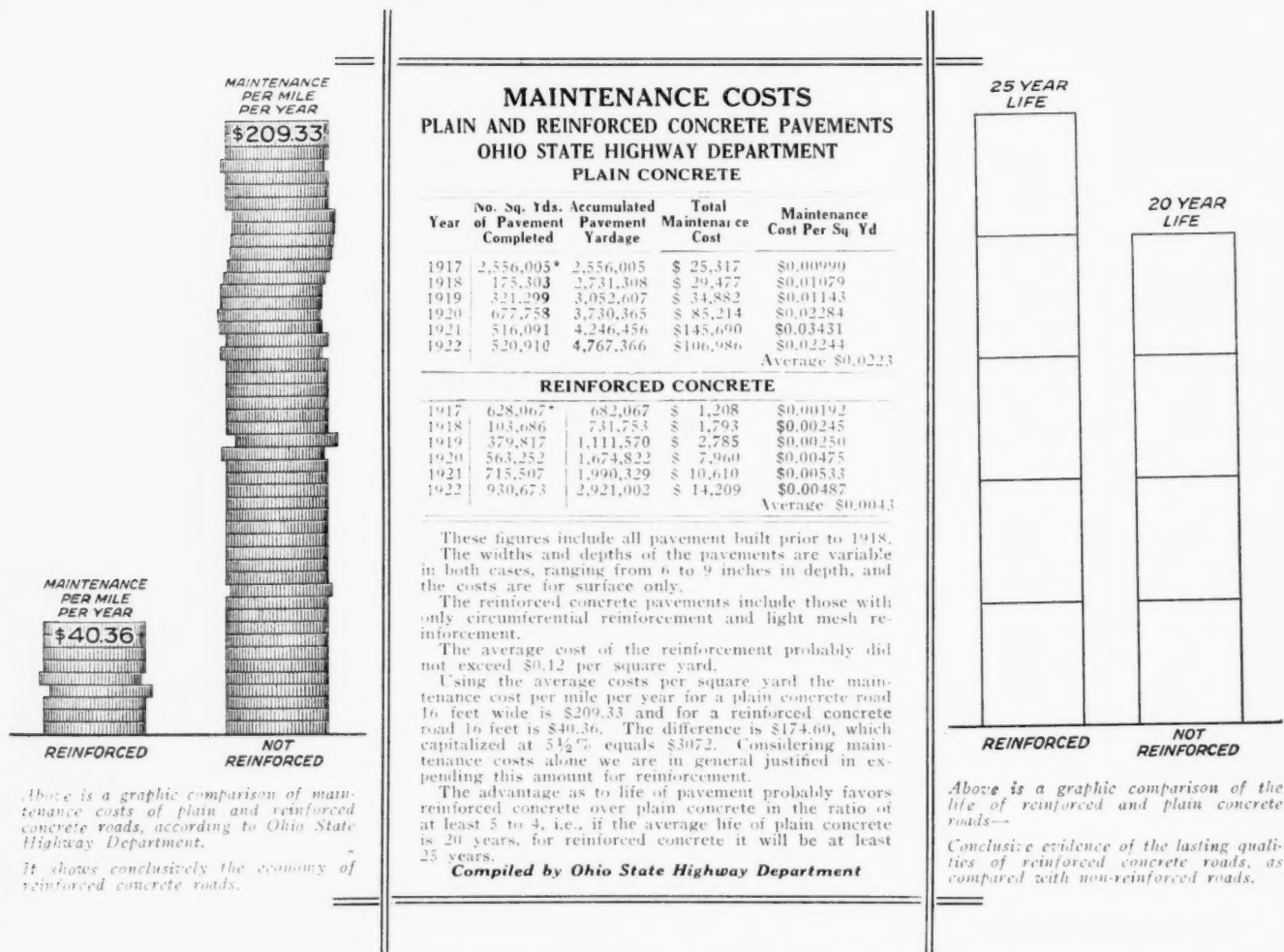
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*Soldiers' Memorial Hospital, Muskogee,
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